Structural Calculations

PORT OF PORTLAND

Terminal 4

Bulk Liquid Commodities and Utilities Support Structures

PORT OF PORTLAND
Possibility. In every direction.

October 2009

10/15/2009

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79674PE
OREGON
MAY 13, 2008
TIMOTHY FRANCIS LENGYEL
EXPIRATION DATE: 12/31/2010

Timothy F. Lengyel, P.E., S.E.
Oregon SE #79674
Expiration: 12/31/2010

Prepared By:

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09-169940-00 Demo

09-169937-00

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Technical Memorandum

Project: Port of Portland
Terminal 4 Pipe Rack

Job#: 10864-09001

Prepared by: Larry Lewis
Reviewed by: Tim Lengyel, SE

June 8, 2009
Revised September 18, 2009

Design Standards

- Oregon Structural Specialty Code – 2007

Reference

- GRI Preliminary Geotechnical Recommendations Dated 6/8/2009

Design Criteria

- Building occupancy Category: II
- Seismic Criteria:
  - Seismic Design Category: D
  - Soil Site Class: E
  - Seismic Importance Factor: 1.0
  - Spectral Coefficients:
    - S_s =98%g
    - S_1= 35%g

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Structural Narrative

Potential Commodities to be Handled

The following list of potential commodities is being considered for handling on Berth 401:

> Liquids: Methanol; Ethanol, Glycerin, Biodiesel, Canola oil, Soybean oil, Palm oil, vegetable oil, Propylene Glycol, and 50% Sodium Hydroxide

This is a speculative list and could change depending on future tenants.

We have chosen to categorize these structures as an occupancy category "II" because the pipe is generally empty so the risk that the structure will contain sufficient quantities to be hazardous to the public in the event of a seismic event is low. It is our understanding that these chemicals are not categorized as either toxic, highly toxic or explosive.

Low Level Pipe Rack

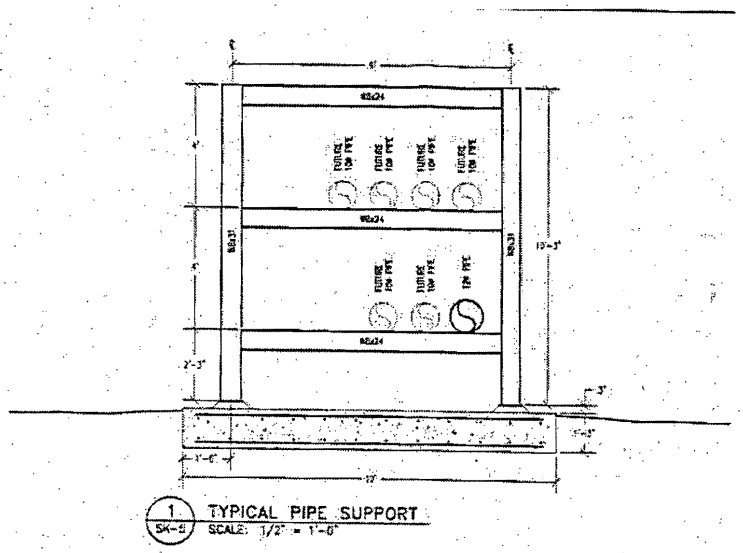


Figure 1Conceptual Low Pipe Rack

The low level pipe rack consists of ordinary steel moment frames bolted to individual spread footings. The racks will be at 20-foot centers and support three levels of pipes. The support of the pipes on the rack will be configured to allow unrestricted upward vertical movement of the pipes. The rack design will included support of the pipe at expansion loops located to accommodate pipe thermal expansion.

Elevated Pipe Rack

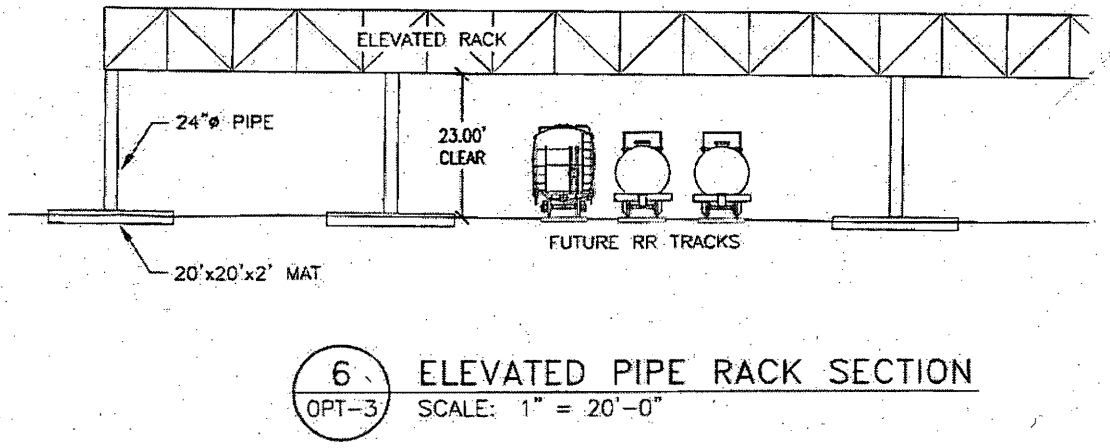
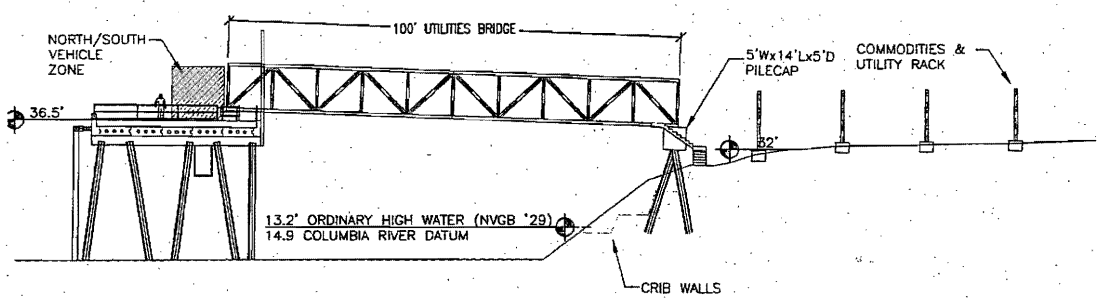


Figure 2 Conceptual High Pipe Rack

The elevated pipe rack is comprised of steel box trusses spanning and connected to large diameter cantilever pipe columns supported on large spread footings. We currently anticipate the spread footing to be 20-25 foot square. The truss sections between columns are simple spans and not directly connected to adjacent truss sections. The pipe columns are connected by anchor bolts to the spread footings. The connection of the box trusses to the columns will be configured to allow both vertical and lateral displacement of the foundations without overstress or failure of the trusses or columns. These connections will be made with pins in horizontally slotted holes. The pins will allow rotation of the trusses at the columns if the columns are displaced vertically relative to adjacent columns. The slotted holes will allow column/truss rotation about a vertical axis resulting from lateral column displacement in directions perpendicular the rack axis. The design will include a space frame analysis for both operating and design seismic conditions. Structure racking will also be evaluated by an analysis with only three supports.

Pipe Bridge

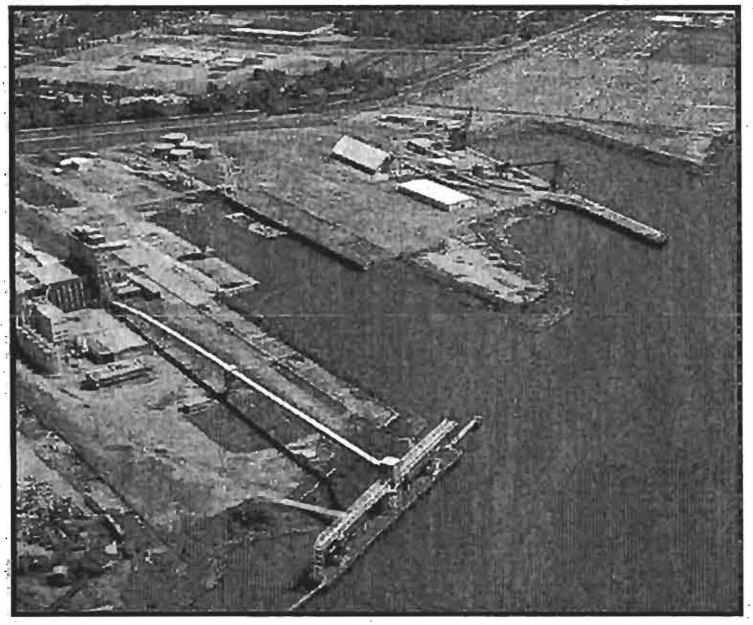


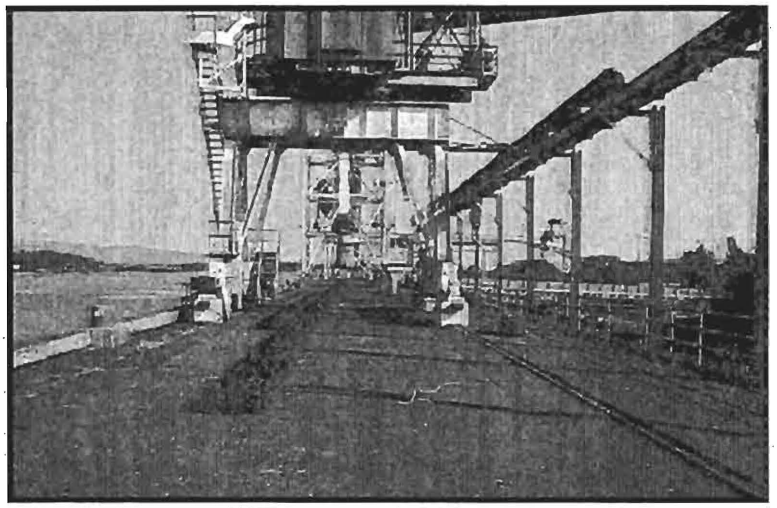
3 OPT-3 BRIDGE SECTION
SCALE: 1" = 20'-0"

The pipe bridge is a steel box truss spanning between the pier and a land foundation. The two bridge supports on the land foundation will be configured to allow horizontal movement parallel with the bridge axis and horizontal support perpendicular to the bridge axis. The two bridge supports on the pier will be on the line of the inner gantry rail. One of these supports will provide restraint in both plan orthogonal directions. The other support will allow horizontal movement parallel with the bridge axis and horizontal restraint in a direction perpendicular to the bridge axis.

The bridge will be adding both weight and horizontal seismic loading to the pier through its support on the pier. There is an existing gantry crane, loader on the pier. It is proposed to remove the crane and loader as part of this design. The pier will not be analyzed for this additional loading. We propose to demonstrate that the new loading is much less than the loading from the loader and gantry that will be removed from the pier.

The seismic analysis of the bridge will assume the bridge is supported by a land foundation at each end and not connected to the pier. While this assumption may or not be conservative depending on the seismic response of the pier, any non-conservatism is judged to be small and within the bounds of seismic assessment.





Picture 1 Pictures of Equipment to Be Removed

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. ____ of ____

Subject T9 Elevated Rack Job No. 108640900 2

Calculations

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A1 of 5

Subject T4 Elevated Rack Job No. 1086409 002

A. Description and Design Criteria

DESCRIPTION

The elevated rack is a series of box truss structures, 7'-6" wide by 5'-0" high, independently connected to round tubular cantilever columns with two adjacent structures sharing a common column. This connection between truss structures and columns is made with horizontal pins that are configured to allow differential displacements of the supporting mat foundations without overstress of the truss structures. Column spacing varies with a maximum of 80 feet. Pipe support beams are provided in the horizontal framing between top chords and between bottom chords with a maximum beam horizontal spacing less than 20 feet.

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A3 of 5

Subject T4 Elevated Deck Job No. 1086409002

Design Criteria

Bldg Occupancy Category II

Seismic Criteria

Seismic Design Category D

Soil Site Class E

Seismic Importance Factor 1.0

Spectral Coefficients

$S_S = .98\,g$

$S_1 = .35\,g$

Analysis (Allowable Stress Design)

Space Frame Response Spectrum Analysis

Included w/ Dead Load is 6-10" ϕ & 2-12" ϕ pipes filled w/ water

AISC 7 Seismic Loads

Inverted Pendulum Type Structure

Table 15.4.2 $R = 2.0$ $\Omega_0 = 2.0$

Detailing Requirements = 12.2.5.3

ASD Loading Combination (5) 12.4.2.3

$(1.0 + .14 S_{DS})D + .7\rho Q_E$

$(1 + .14 S_{DS}) = (1 + .14(.59)) = 1.08$ $\rho = 1.3$ (12.3.4.2)

$Q_E = \frac{S_{DS}W}{(R/I)} = \frac{S_{DS}W}{(2/1)} = .5 S_{DS} W$

$.7\rho Q_E = .7 \times 1.3 \times .5 S_{DS} W = .45 S_{DS} W$

$1.08 D + .45 S_{DS} W$

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Subject T4 Elevated Rack Job No. 1086909002

Seismic

$S_s = .98$ $S_1 = .35$ Soil Class E

$F_a = .9$ $S_{ms} = F_a S_s = .9 \times .98 = .88$ $F_v = 2.6$

$S_{DS} = 2/3\, S_{ms} = .67 \times .88 = .59$ $S_{m1} = F_v S_1 = 2.6 \times .35 = .91$

Response Spectrum

For $T < T_0$ $S_a = S_{DS}\left(.4 + .6\, T/T_0\right)$

$T_0 = .2 \times \frac{S_{D1}}{S_{DS}}$ $S_{D1} = 2/3\, S_{m1} = .67 \times .91 = .61$

$T_s = \frac{S_{D1}}{S_{DS}}$

For $T > T_s$ $S_a = \frac{S_{D1}}{T}$ $C_s = \frac{.59}{2/1} = .295$

Respose Spectrum

T	Sa
.01	.25
.10	.40
.21	.59
.4	.59
.6	.59
.8	.59
1.03	.59
1.2	.51
1.4	.49
1.6	.38
2.0	.31
4.0	.15

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Subject T4 Elevated Rack Job No. 1086409002

Design Criteria Cont'd

The elevated rack is designed to support pipes and their contents up to a maximum load of 325#/ft/level with 2 levels the total maximum load is 650#/ft. The 650#/ft

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Subject T4 Elevated Rack Job No. 1086409002

B. Space Frame Computer Model

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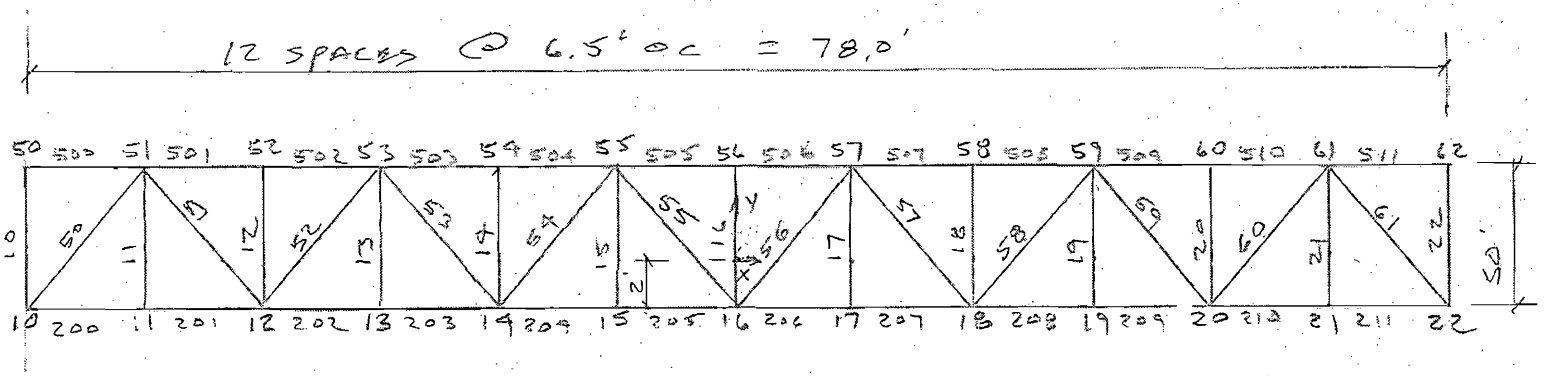
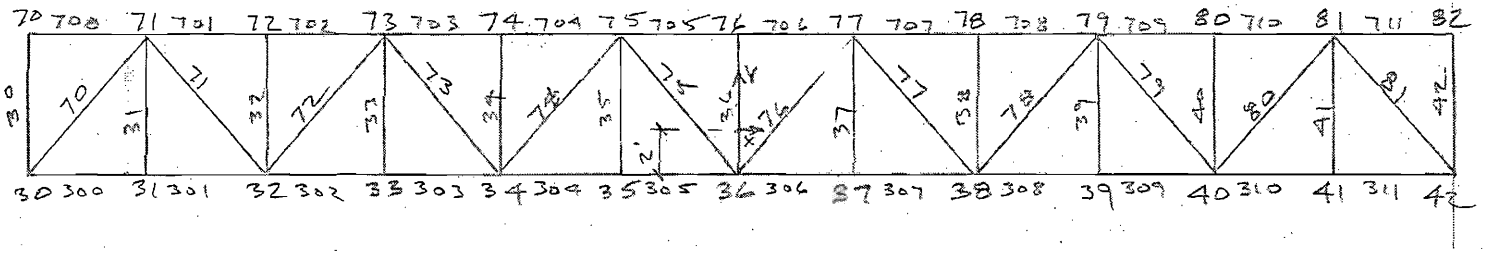
Subject 74 Elevated Ramp Job No. 1086409.002



ELEVATION Z = -3.75'



ELEVATION Z = 3.75'

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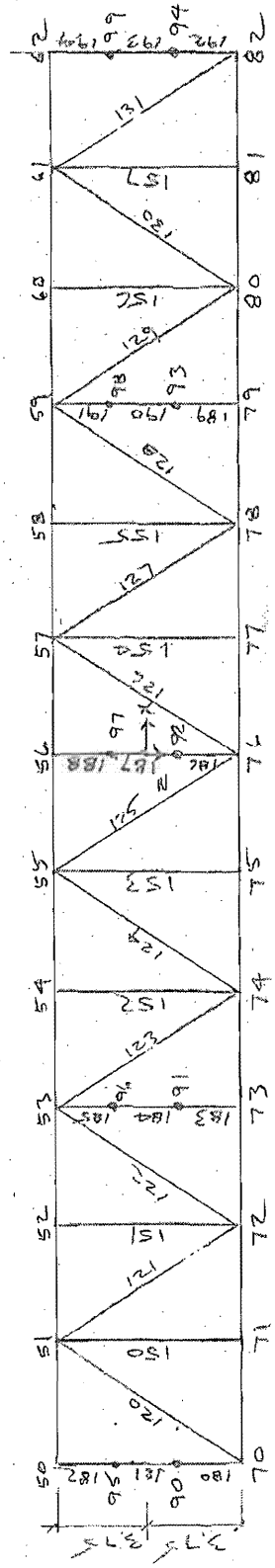
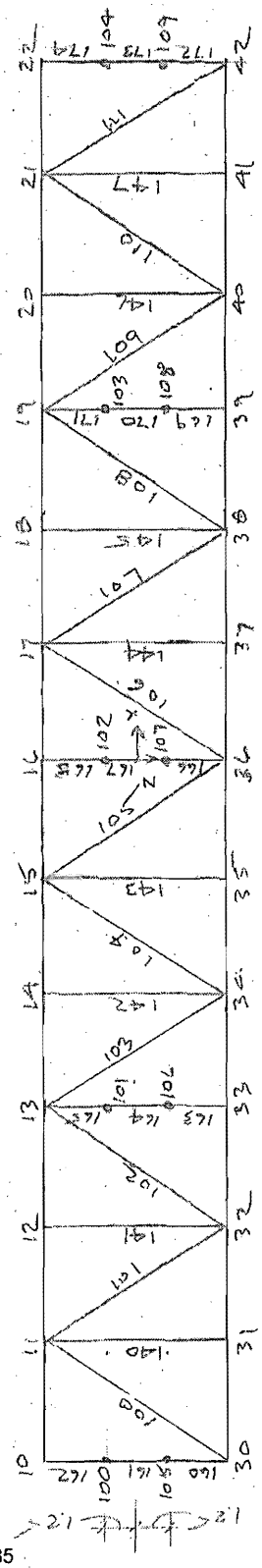
By L. Lewis Date 9/09 Client Port of Portland Sheet No. B3 of 7

Subject T4 Elevated Roadway Job No. 1086409.002



TOP CHORDS Y = 3.00



BOT CHORDS Y = -3.00

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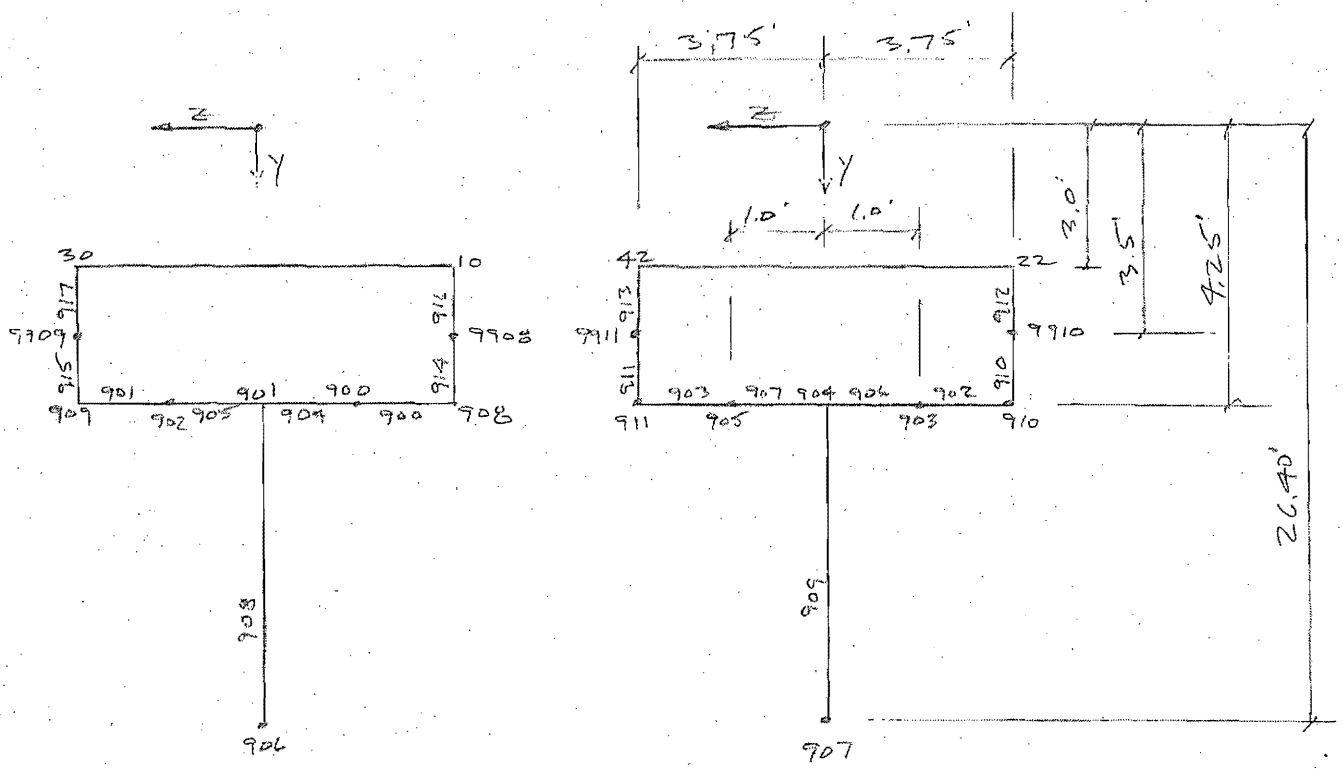
Subject T4 ELEVATED RACK Job No. 1086409002



ELEVATION

X = -39.0'

ELEVATION

X = +39.0'

Member	End Releases	(About Global axis)	
910	9910	Shear X, Z	Moment X, Y, Z
911	9911	Shear X	Moment X, Y, Z,
914	9905	Shear Z	Moment X, Y, Z,
915	9905		Moment X Y Z

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Subject T4 Elevated Rack Job No. 1086409.002

Pipe Weight - All Pipes filled w/ water

2 - 12" D 2 x 102.03 #/ft = 204.06

6 - 10" D 6 x 79.58 = 447.48

651.54 #/ft

Assume uniformly distributed along 7'-6" Support Beams (2 Levels)

$\frac{651.54}{7.5 \times 2} = 43.43$ #/ft /ft /level

Pipe Support Beams are W6x15 Area .0307 ft²

increase beam wt x 5% 15 x 1.05 15.8 #/ft

increase density of support beams to model pipes + contents

Intermediate Beams @ 19'-6" o.c.

modelled bm wt/ft = 19.5 x 43.43 + 15.8 = 862.8 #/ft

Modelled Bm Density = $\frac{862.8}{.0307 \times 1000}$ = 28.1 K/ft³

End Support Beams pipe supported length = $\frac{19.5}{2}$ + 1.5 = 10.75'

Modelled bm wt/ft = 10.75 x 43.43 + 15.8 = 482.7 #/ft

Modelled Bm Density = $\frac{482.7}{1000 \times .0307}$ = 15.7 K/ft³

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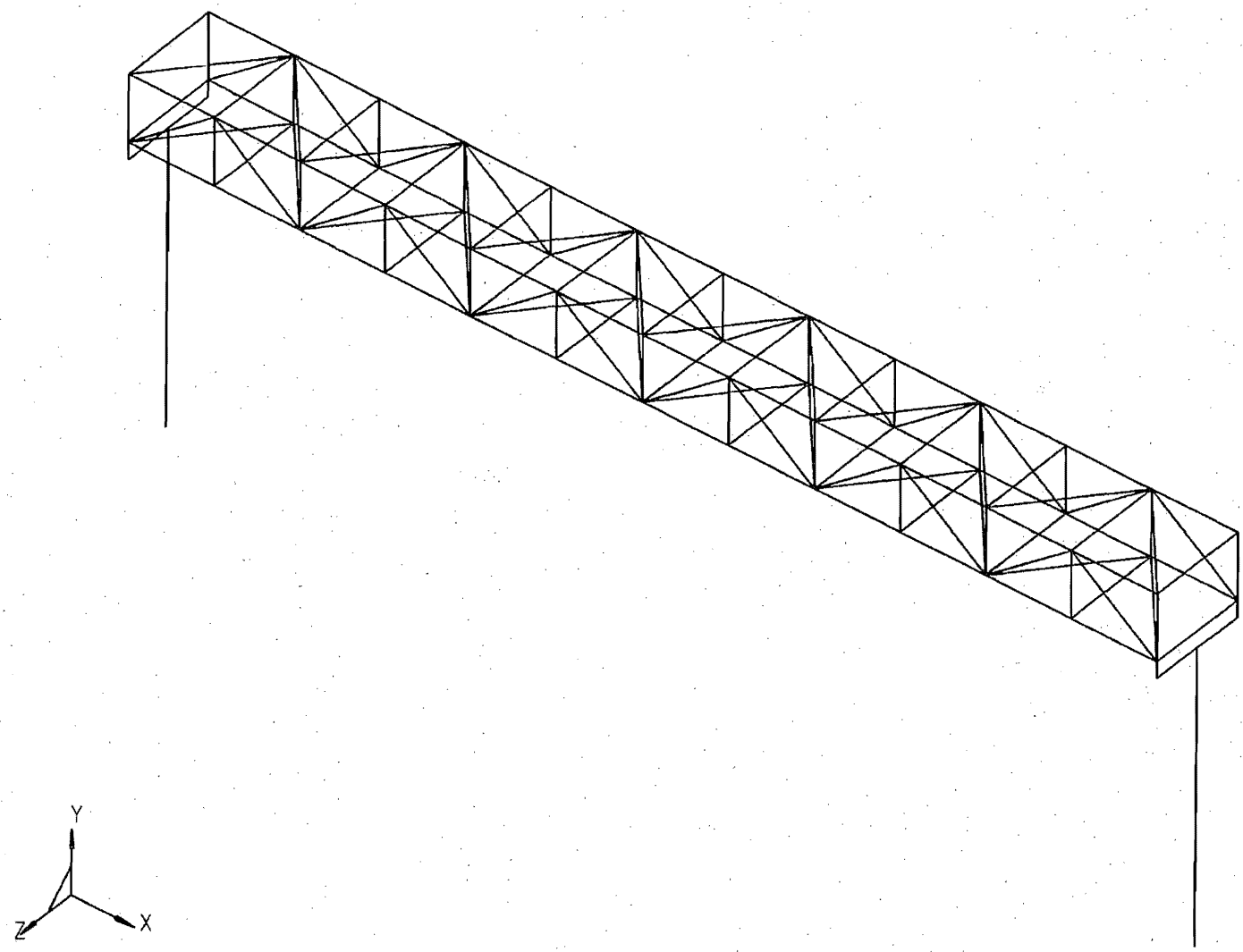
Subject T4 Elevated Rack Job No. 1086409002

Computer Model

78' span w/ 30" Φ Column at each end

The columns are modelled w/ ½ of their area & ½ Iy since the weight of the adjacent spans are not included in the analysis

It will be necessary to double the column vertical reactions, base shears & overturning moments in the z direction for column & foundation design.



UNDEFORMED SHAPE

POP T4 ELEVATED PIPE RACK

EDP - EXTENDED DESIGN PROGRAM
V2.99 01-23- 9 12:22:15
DIGITAL STRUCTURES INC. 1

B7/7

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. C1 of 22

Subject T4 Elevated Roads Job No. 1086409002

C. Gravity Load Analysis

C2/22

poptrussr5.in

Gravity Load Analysis

includes 5% increase

```
AHALF
AHEAD  POP T4 Elevated Pipe Rack
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                  -----------> X-DIR Centerline Bridge
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 V
AHEAD               Z-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________
* LOADS DEFINITION
*_____________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)d
*
BWATR   -Y    -100.0     0.064        1.       32.2        1.
*
*_____________________________________________________
* NODES DEFINITION
*_____________________________________________________
*  Bottom Truss Nodes
CNODE   10    -39.00     -2.00     -3.75
CNODE   11    -32.50     -2.00     -3.75
CNODE   12    -26.00     -2.00     -3.75
CNODE   13    -19.50     -2.00     -3.75
CNODE   14    -13.00     -2.00     -3.75
CNODE   15     -6.50     -2.00     -3.75
CNODE   16      0.00     -2.00     -3.75
CNODE   17      6.50     -2.00     -3.75
CNODE   18     13.00     -2.00     -3.75
CNODE   19     19.50     -2.00     -3.75
CNODE   20     26.00     -2.00     -3.75
CNODE   21     32.50     -2.00     -3.75
CNODE   22     39.00     -2.00     -3.75
CNODE   30    -39.00     -2.00      3.75
CNODE   31    -32.50     -2.00      3.75
CNODE   32    -26.00     -2.00      3.75
CNODE   33    -19.50     -2.00      3.75
CNODE   34    -13.00     -2.00      3.75
CNODE   35     -6.50     -2.00      3.75
CNODE   36      0.00     -2.00      3.75
CNODE   37      6.50     -2.00      3.75
CNODE   38     13.00     -2.00      3.75
CNODE   39     19.50     -2.00      3.75
CNODE   40     26.00     -2.00      3.75
CNODE   41     32.50     -2.00      3.75
CNODE   42     39.00     -2.00      3.75
CNODE   50    -39.00      3.00     -3.75
CNODE   51    -32.50      3.00     -3.75
CNODE   52    -26.00      3.00     -3.75
CNODE   53    -19.50      3.00     -3.75
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CNODE   55     -6.50      3.00     -3.75
CNODE   56      0.00      3.00     -3.75
CNODE   57      6.50      3.00     -3.75
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CNODE   59     19.50      3.00     -3.75
CNODE   60     26.00      3.00     -3.75
CNODE   61     32.50      3.00     -3.75
CNODE   62     39.00      3.00     -3.75
CNODE   70    -39.00      3.00      3.75
CNODE   71    -32.50      3.00      3.75
CNODE   72    -26.00      3.00      3.75
CNODE   73    -19.50      3.00      3.75
CNODE   74    -13.00      3.00      3.75
CNODE   75     -6.50      3.00      3.75
CNODE   76      0.00      3.00      3.75
CNODE   77      6.50      3.00      3.75
CNODE   78     13.00      3.00      3.75
```

C3/22


```
CNODE   79     19.50      3.00      3.75
CNODE   80     26.00      3.00      3.75
CNODE   81     32.50      3.00      3.75
CNODE   82     39.00      3.00      3.75
CNODE   90    -39.00      3.00      1.25
CNODE   91    -19.50      3.00      1.25
CNODE   92      0.00      3.00      1.25
CNODE   93     19.50      3.00      1.25
CNODE   94     39.00      3.00      1.25
CNODE   95    -39.00      3.00     -1.25
CNODE   96    -19.50      3.00     -1.25
CNODE   97      0.00      3.00     -1.25
CNODE   98     19.50      3.00     -1.25
CNODE   99     39.00      3.00     -1.25
CNODE  100    -39.00     -2.00     -1.25
CNODE  101    -19.50     -2.00     -1.25
CNODE  102      0.00     -2.00     -1.25
CNODE  103     19.50     -2.00     -1.25
CNODE  104     39.00     -2.00     -1.25
CNODE  105    -39.00     -2.00      1.25
CNODE  106    -19.50     -2.00      1.25
CNODE  107      0.00     -2.00      1.25
CNODE  108     19.50     -2.00      1.25
CNODE  109     39.00     -2.00      1.25
CNODE  900    -39.00     -3.25     -1.00
CNODE  901    -39.00     -3.25      0.00
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CNODE  904     39.00     -3.25      0.00
CNODE  905     39.00     -3.25      1.00
CNODE  908    -39.00     -3.25     -3.75
CNODE  909    -39.00     -3.25      3.75
CNODE  910     39.00     -3.25     -3.75
CNODE  911     39.00     -3.25      3.75
CNODE 9908    -39.00     -2.50     -3.75
CNODE 9909    -39.00     -2.50      3.75
CNODE 9910     39.00     -2.50     -3.75
CNODE 9911     39.00     -2.50      3.75
CNODE  906    -39.00    -25.40      0.00
CNODE  907     39.00    -25.40      0.00
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX   906    2    2    2    2    2    2
DFIX   907    2    2    2    2    2    2
*
*_____________________________________________
* MATERIAL PROPERTIES
*_____________________________________________
EBEAM BRIDGE
* MATERIAL          E    POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.      0.30      0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.      0.30      28.10    7200.0
*
* END SUPPORT BEAMS
* Material Density increased by factor
EBMAT    3  4176000.      0.30      15.70    7200.0
*_____________________________________________
* MEMBER PROPERTIES
*_____________________________________________
*                  Ax         Ay         Az         Ix         Iy         Iz   dy   dz
* W 6x15 section (strong axis = y axis)
EBSEC    1    0.0307      0.680      0.340     0.0001     0.0014     0.0004 0.25 0.25
*
* WT4x6.5 section (strong axis = z axis)
EBSEC    2     0.013      0.520      0.520     0.0001    .00007     .00014 0.25 0.17
*
* W6x15 section (strong axis = z axis)
EBSEC    3    0.0307      0.340      0.680     0.0001     0.0004     0.0014 0.25 0.25
*
* 12x6x.25 section (strong axis = z axis)
EBSEC    4     0.059      0.700      0.350     0.0080     0.0027     0.0078 0.50 0.25
*
* Stiff Section in Column
EBSEC    5     0.035      1.000      1.000     0.3200     0.3200     0.3200
*
* 30"x.375 wall
EBSEC    6     0.121      0.500      0.500     0.9000     0.0923     0.1842 1.25 1.25
*
* W6x12 section (strong axis = z axis)
```

```
EBSEC     7      0.025      0.420      0.560     0.0001     0.0001     0.0011 0.25 0.17
*
* WT4x6.5 section (strong axis = y axis)
EBSEC     8      0.013      0.520      0.520     0.0001     .00014    .000070 0.17 0.25
*
*_____________________________________________________________
* Uniform Member Loads
*_____________________________________________________________
* Operational Loading #1
*EBFGG    45 0.50  0.0                          -273.000
*_____________________________________________________
* MEMBER DEFINITIONS
*_____________________________________________________
*
EBMEM   10   10   50        1   1   0   000000   000000
EBMEM   11   11   51        1   2   0   000011   000011
EBMEM   12   12   52        1   2   0   000011   000011
EBMEM   13   13   53        1   2   0   000011   000011
EBMEM   14   14   54        1   2   0   000011   000011
EBMEM   15   15   55        1   2   0   000011   000011
EBMEM   16   16   56        1   2   0   000011   000011
EBMEM   17   17   57        1   2   0   000011   000011
EBMEM   18   18   58        1   2   0   000011   000011
EBMEM   19   19   59        1   2   0   000011   000011
EBMEM   20   20   60        1   2   0   000011   000011
EBMEM   21   21   61        1   2   0   000011   000011
EBMEM   22   22   62        1   1   0   000000   000000
EBMEM   30   30   70        1   1   0   000000   000000
EBMEM   31   31   71        1   2   0   000011   000011
EBMEM   32   32   72        1   2   0   000011   000011
EBMEM   33   33   73        1   2   0   000011   000011
EBMEM   34   34   74        1   2   0   000011   000011
EBMEM   35   35   75        1   2   0   000011   000011
EBMEM   36   36   76        1   2   0   000011   000011
EBMEM   37   37   77        1   2   0   000011   000011
EBMEM   38   38   78        1   2   0   000011   000011
EBMEM   39   39   79        1   2   0   000011   000011
EBMEM   40   40   80        1   2   0   000011   000011
EBMEM   41   41   81        1   2   0   000011   000011
EBMEM   42   42   82        1   1   0   000000   000000
EBMEM   50   10   51        1   2   0   000011   000011
EBMEM   51   12   51        1   2   0   000011   000011
EBMEM   52   12   53        1   2   0   000011   000011
EBMEM   53   14   53        1   2   0   000011   000011
EBMEM   54   14   55        1   2   0   000011   000011
EBMEM   55   16   55        1   2   0   000011   000011
EBMEM   56   16   57        1   2   0   000011   000011
EBMEM   57   18   57        1   2   0   000011   000011
EBMEM   58   18   59        1   2   0   000011   000011
EBMEM   59   20   59        1   2   0   000011   000011
EBMEM   60   20   61        1   2   0   000011   000011
EBMEM   61   22   61        1   2   0   000011   000011
EBMEM   70   30   71        1   2   0   000011   000011
EBMEM   71   32   71        1   2   0   000011   000011
EBMEM   72   32   73        1   2   0   000011   000011
EBMEM   73   34   73        1   2   0   000011   000011
EBMEM   74   34   75        1   2   0   000011   000011
EBMEM   75   36   75        1   2   0   000011   000011
EBMEM   76   36   77        1   2   0   000011   000011
EBMEM   77   38   77        1   2   0   000011   000011
EBMEM   78   38   79        1   2   0   000011   000011
EBMEM   79   40   79        1   2   0   000011   000011
EBMEM   80   40   81        1   2   0   000011   000011
EBMEM   81   42   81        1   2   0   000011   000011
EBMEM  100   30   11        1   8   0   000011   000011
EBMEM  101   32   11        1   8   0   000011   000011
EBMEM  102   32   13        1   8   0   000011   000011
EBMEM  103   34   13        1   8   0   000011   000011
EBMEM  104   34   15        1   8   0   000011   000011
EBMEM  105   36   15        1   8   0   000011   000011
EBMEM  106   36   17        1   8   0   000011   000011
EBMEM  107   38   17        1   8   0   000011   000011
EBMEM  108   38   19        1   8   0   000011   000011
EBMEM  109   40   19        1   8   0   000011   000011
EBMEM  110   40   21        1   8   0   000011   000011
EBMEM  111   42   21        1   8   0   000011   000011
EBMEM  120   70   51        1   8   0   000011   000011
EBMEM  121   72   51        1   8   0   000011   000011
EBMEM  122   72   53        1   8   0   000011   000011
EBMEM  123   74   53        1   8   0   000011   000011
EBMEM  124   74   55        1   8   0   000011   000011
EBMEM  125   76   55        1   8   0   000011   000011
EBMEM  126   76   57        1   8   0   000011   000011
EBMEM  127   78   57        1   8   0   000011   000011
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EBMEM  128   78   59        1   8   0   000011   000011
EBMEM  129   80   59        1   8   0   000011   000011
EBMEM  130   80   61        1   8   0   000011   000011
EBMEM  131   82   61        1   8   0   000011   000011
EBMEM  140   31   11        1   8   0   000011   000011
EBMEM  141   32   12        1   8   0   000011   000011
EBMEM  142   34   14        1   8   0   000011   000011
EBMEM  143   35   15        1   8   0   000011   000011
EBMEM  144   37   17        1   8   0   000011   000011
EBMEM  145   38   18        1   8   0   000011   000011
EBMEM  146   40   20        1   8   0   000011   000011
EBMEM  147   41   21        1   8   0   000011   000011
EBMEM  150   71   51        1   8   0   000011   000011
EBMEM  151   72   52        1   8   0   000011   000011
EBMEM  152   74   54        1   8   0   000011   000011
EBMEM  153   75   55        1   8   0   000011   000011
EBMEM  154   77   57        1   8   0   000011   000011
EBMEM  155   78   58        1   8   0   000011   000011
EBMEM  156   80   60        1   8   0   000011   000011
EBMEM  157   81   61        1   8   0   000011   000011
EBMEM  160   30  105        3   3   0   000000   000000
EBMEM  161  105  100        3   3   0   000000   000000
EBMEM  162  100   10        3   3   0   000000   000000
EBMEM  163   33  106        2   3   0   000011   000000
EBMEM  164  106  101        2   3   0   000000   000000
EBMEM  165  101   13        2   3   0   000000   000011
EBMEM  166   36  107        2   3   0   000011   000000
EBMEM  167  107  102        2   3   0   000000   000000
EBMEM  168  102   16        2   3   0   000000   000011
EBMEM  169   39  108        2   3   0   000011   000000
EBMEM  170  108  103        2   3   0   000000   000000
EBMEM  171  103   19        2   3   0   000000   000011
EBMEM  172   42  109        3   3   0   000000   000000
EBMEM  173  109  104        3   3   0   000000   000000
EBMEM  174  104   22        3   3   0   000000   000000
EBMEM  180   70   90        3   3   0   000000   000000
EBMEM  181   90   95        3   3   0   000000   000000
EBMEM  182   95   50        3   3   0   000000   000000
EBMEM  183   73   91        2   3   0   000011   000000
EBMEM  184   91   96        2   3   0   000000   000000
EBMEM  185   96   53        2   3   0   000000   000011
EBMEM  186   76   92        2   3   0   000011   000000
EBMEM  187   92   97        2   3   0   000000   000000
EBMEM  188   97   56        2   3   0   000000   000011
EBMEM  189   79   93        2   3   0   000011   000000
EBMEM  190   93   98        2   3   0   000000   000000
EBMEM  191   98   59        2   3   0   000000   000011
EBMEM  192   82   94        3   3   0   000000   000000
EBMEM  193   94   99        3   3   0   000000   000000
EBMEM  194   99   62        3   3   0   000000   000000
EBMEM  200   10   11        1   7   0   000000   000000
EBMEM  201   11   12        1   7   0   000000   000000
EBMEM  202   12   13        1   7   0   000000   000000
EBMEM  203   13   14        1   7   0   000000   000000
EBMEM  204   14   15        1   7   0   000000   000000
EBMEM  205   15   16        1   7   0   000000   000000
EBMEM  206   16   17        1   7   0   000000   000000
EBMEM  207   17   18        1   7   0   000000   000000
EBMEM  208   18   19        1   7   0   000000   000000
EBMEM  209   19   20        1   7   0   000000   000000
EBMEM  210   20   21        1   7   0   000000   000000
EBMEM  211   21   22        1   7   0   000000   000000
EBMEM  300   30   31        1   7   0   000000   000000
EBMEM  301   31   32        1   7   0   000000   000000
EBMEM  302   32   33        1   7   0   000000   000000
EBMEM  303   33   34        1   7   0   000000   000000
EBMEM  304   34   35        1   7   0   000000   000000
EBMEM  305   35   36        1   7   0   000000   000000
EBMEM  306   36   37        1   7   0   000000   000000
EBMEM  307   37   38        1   7   0   000000   000000
EBMEM  308   38   39        1   7   0   000000   000000
EBMEM  309   39   40        1   7   0   000000   000000
EBMEM  310   40   41        1   7   0   000000   000000
EBMEM  311   41   42        1   7   0   000000   000000
*
EBMEM  500   50   51        1   7   0   000000   000000
EBMEM  501   51   52        1   7   0   000000   000000
EBMEM  502   52   53        1   7   0   000000   000000
EBMEM  503   53   54        1   7   0   000000   000000
*
EBMEM  504   54   55        1   7   0   000000   000000
EBMEM  505   55   56        1   7   0   000000   000000
EBMEM  506   56   57        1   7   0   000000   000000
EBMEM  507   57   58        1   7   0   000000   000000
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EBMEM  508   58   59        1    7    0    000000    000000
EBMEM  509   59   60        1    7    0    000000    000000
EBMEM  510   60   61        1    7    0    000000    000000
EBMEM  511   61   62        1    7    0    000000    000000
EBMEM  700   70   71        1    7    0    000000    000000
EBMEM  701   71   72        1    7    0    000000    000000
EBMEM  702   72   73        1    7    0    000000    000000
EBMEM  703   73   74        1    7    0    000000    000000
EBMEM  704   74   75        1    7    0    000000    000000
EBMEM  705   75   76        1    7    0    000000    000000
EBMEM  706   76   77        1    7    0    000000    000000
EBMEM  707   77   78        1    7    0    000000    000000
*
EBMEM  708   78   79        1    7    0    000000    000000
EBMEM  709   79   80        1    7    0    000000    000000
EBMEM  710   80   81        1    7    0    000000    000000
EBMEM  711   81   82        1    7    0    000000    000000
EBMEM  900  900  908        1    4    0    000000    000000
EBMEM  901  909  902        1    4    0    000000    000000
EBMEM  902  903  910        1    4    0    000000    000000
EBMEM  903  911  905        1    4    0    000000    000000
EBMEM  904  901  900        1    5    0    000000    000000
EBMEM  905  902  901        1    5    0    000000    000000
EBMEM  906  904  903        1    5    0    000000    000000
EBMEM  910  910 9910        1    4    0    000000    011111
EBMEM  911  911 9911        1    4    0    000000    010111
EBMEM  912 9910   22        1    4    0    000000    000000
EBMEM  913 9911   42        1    4    0    000000    000000
EBMEM  914  908 9908        1    4    0    000000    001111
EBMEM  915  909 9909        1    4    0    000000    000111
EBMEM  916 9908   10        1    4    0    000000    000000
EBMEM  917 9909   30        1    4    0    000000    000000
EBMEM  907  905  904        1    5    0    000000    000000
EBMEM  908  906  901        1    6    0    000000    000000
EBMEM  909  907  904        1    6    0    000000    000000
*
*FLOAD  101    2          0.000    -0.560     0.000      0.00       0.0      0.00
*FLOAD  102    2          0.000    -0.560
*FLOAD  103    2                   -0.560
*FLOAD  104    2                   -0.560
*FLOAD  105    2                   -0.560
*FLOAD  106    2                   -0.560
*FLOAD  107    2                   -0.560
*FLOAD  108    2                   -0.560
*FLOAD  109    2                   -0.560
*
FSUMM    0
*
*_____________________________________________________________
* LOAD COMBINATION
*_____________________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1          1.00
*FCASE    1    2          1.00
*FCASE    1   10          0.00
*FCASE    1   32          0.00
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*_____________________________________________________
* MASS DISTRIBUTION
*_____________________________________________________
* Upper Deck
*GMASS  101    0          0.018      0.018      0.018
*GMASS  102    0          0.018      0.018      0.018
*GMASS  103    0          0.018      0.018      0.018
*GMASS  104    0          0.018      0.018      0.018
*GMASS  105    0          0.018      0.018      0.018
*GMASS  106    0          0.018      0.018      0.018
*GMASS  107    0          0.018      0.018      0.018
*GMASS  108    0          0.018      0.018      0.018
*GMASS  109    0          0.018      0.018      0.018
*
GSUMM    0
*
GSCAL    0       1.0       1.0       1.0       1.0       1.0
*
*    ** RESPONSE SPECTRAL CURVE **
*    API C2.3.6c
*    Soils profile Type B, Zone 4, G=0.25
*
```

```
GCURV    1     0.010    0.2500
GCURV          0.100    0.4000
GCURV          0.210    0.5900
GCURV          0.400    0.5900
GCURV          0.600    0.5900
GCURV          0.800    0.5900
GCURV          1.030    0.5900
GCURV          1.200    0.5100
GCURV          1.400    0.4400
GCURV          1.600    0.3800
GCURV          2.000    0.3100
GCURV          4.000    0.1500
*
GRESP    1 +CQC         1 0.35                    0.05
GRESP    1 -CQC         1 0.35                    0.05
GRESP    1 +CQC                             1 0.35 0.05
GRESP    1 -CQC                             1 0.35 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*      8700-8706
*#END
*
*_____________________________________________________
* ANALYSIS REQUEST
*_____________________________________________________
* Linear Static Analysis
ZSTAT    1    3    0
*
* Eigensolution (40 modes)
ZEIGN   40    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP    3    3    0              35    0    0
*
** Non-linear static pushover analysis
*ZPUSH    2    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                 1.0
**
*ZPUSH    5    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                           1.0
*
**
*ZSNAP    0    2    0              2
*_____________________________________________________
* PLOT REQUEST
*_____________________________________________________
*ZPLOT    1    1    0    0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                0.00      0.10      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' PRODUCTION STRUCTURE
*                1.00      1.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      PAGE
*      MODE              1
*      PAGE
*      MODE              2
*      PAGE
*      MODE              3
*      PAGE
*      MODE              4
*      PAGE
*      MODE              5
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' DECK STRUCTURE
*                0.00      0.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
***
ZPLOT   -1    1    1    0    0             POP T4 ELEVATED PIPE RACK
```

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poptrussr5.in

```
0.80     1.000     1.00     0.00     1.00     0.00
1.00      1.00     1.00
UNDF
END
***
```

.....STATIC NODE REACTIONS

NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	ANGLE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
906	1	5.2419E-12	-3.2739E+01	-8.5118E-04	-3.27E+01	8.51E-04	0.00	-1.7296E-02	6.6392E-02	-1.2005E-10
907	1	0.0000E+00	-3.2739E+01	8.5118E-04	-3.27E+01	8.51E-04	0.00	1.7296E-02	0.0000E+00	0.0000E+00
TOTAL	1	5.2419E-12	-6.5478E+01	-8.7593E-13	-6.55E+01	5.31E-12	-80.51	5.0929E-12	6.6392E-02	-1.2005E-10

STATIC = 3 POP T4 Elevated Pipe Rack [01-23- 9 22:10:18]EDP-PAGE = 26

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
10	1	10	2.121E+00	3.342E-01	-7.129E-01	-1.546E-03	1.782E+00	8.405E-01	-6.91E+01	3.18E+02	5.25E+02	0.127
			-2.081E+00	-3.342E-01	7.129E-01	1.546E-03	5.232E-04	-4.919E-03	-6.78E+01	9.34E-02	-3.07E+00	0.010
		50	-2.041E+00	-3.342E-01	7.129E-01	1.546E-03	1.783E+00	8.307E-01	-6.65E+01	3.18E+02	5.19E+02	0.126
11	1	11	5.195E-02	0.000E+00	0.000E+00	7.017E-03	0.000E+00	0.000E+00	-4.00E+00	0.00E+00	0.00E+00	0.001
			-3.508E-02	0.000E+00	0.000E+00	-7.017E-03	0.000E+00	0.000E+00	-2.70E+00	0.00E+00	0.00E+00	0.000
		51	-1.822E-02	0.000E+00	0.000E+00	-7.017E-03	0.000E+00	0.000E+00	-1.40E+00	0.00E+00	0.00E+00	0.000
12	1	12	2.768E-01	0.000E+00	0.000E+00	-7.671E-03	0.000E+00	0.000E+00	-2.13E+01	0.00E+00	0.00E+00	0.003
			-2.600E-01	0.000E+00	0.000E+00	7.671E-03	0.000E+00	0.000E+00	-2.00E+01	0.00E+00	0.00E+00	0.003
		52	-2.431E-01	0.000E+00	0.000E+00	7.671E-03	0.000E+00	0.000E+00	-1.87E+01	0.00E+00	0.00E+00	0.003
13	1	13	-3.115E+00	0.000E+00	0.000E+00	6.057E-03	0.000E+00	0.000E+00	2.40E+02	0.00E+00	0.00E+00	0.033
			3.132E+00	0.000E+00	0.000E+00	-6.057E-03	0.000E+00	0.000E+00	2.41E+02	0.00E+00	0.00E+00	0.033
		53	3.149E+00	0.000E+00	0.000E+00	-6.057E-03	0.000E+00	0.000E+00	2.42E+02	0.00E+00	0.00E+00	0.034
14	1	14	2.062E-01	0.000E+00	0.000E+00	-3.643E-03	0.000E+00	0.000E+00	-1.59E+01	0.00E+00	0.00E+00	0.002
			-1.893E-01	0.000E+00	0.000E+00	3.643E-03	0.000E+00	0.000E+00	-1.46E+01	0.00E+00	0.00E+00	0.002
		54	-1.724E-01	0.000E+00	0.000E+00	3.643E-03	0.000E+00	0.000E+00	-1.33E+01	0.00E+00	0.00E+00	0.002
15	1	15	-2.242E-01	0.000E+00	0.000E+00	2.463E-03	0.000E+00	0.000E+00	1.72E+01	0.00E+00	0.00E+00	0.002
			2.411E-01	0.000E+00	0.000E+00	-2.463E-03	0.000E+00	0.000E+00	1.85E+01	0.00E+00	0.00E+00	0.003
		55	2.580E-01	0.000E+00	0.000E+00	-2.463E-03	0.000E+00	0.000E+00	1.98E+01	0.00E+00	0.00E+00	0.003
16	1	16	3.103E+00	0.000E+00	0.000E+00	3.728E-06	0.000E+00	0.000E+00	-2.39E+02	0.00E+00	0.00E+00	0.033
			-3.086E+00	0.000E+00	0.000E+00	-3.728E-06	0.000E+00	0.000E+00	-2.37E+02	0.00E+00	0.00E+00	0.033
		56	-3.069E+00	0.000E+00	0.000E+00	-3.728E-06	0.000E+00	0.000E+00	-2.36E+02	0.00E+00	0.00E+00	0.033
17	1	17	-2.242E-01	0.000E+00	0.000E+00	-2.456E-03	0.000E+00	0.000E+00	1.72E+01	0.00E+00	0.00E+00	0.002
			2.411E-01	0.000E+00	0.000E+00	2.456E-03	0.000E+00	0.000E+00	1.85E+01	0.00E+00	0.00E+00	0.003
		57	2.580E-01	0.000E+00	0.000E+00	2.456E-03	0.000E+00	0.000E+00	1.98E+01	0.00E+00	0.00E+00	0.003
18	1	18	2.062E-01	0.000E+00	0.000E+00	3.649E-03	0.000E+00	0.000E+00	-1.59E+01	0.00E+00	0.00E+00	0.002
			-1.893E-01	0.000E+00	0.000E+00	-3.649E-03	0.000E+00	0.000E+00	-1.46E+01	0.00E+00	0.00E+00	0.002
		58	-1.725E-01	0.000E+00	0.000E+00	-3.649E-03	0.000E+00	0.000E+00	-1.33E+01	0.00E+00	0.00E+00	0.002

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19	1	19	-3.115E+00	0.000E+00	0.000E+00	-6.054E-03	0.000E+00	0.000E+00	2.40E+02	0.00E+00	0.00E+00	0.033
			3.132E+00	0.000E+00	0.000E+00	6.054E-03	0.000E+00	0.000E+00	2.41E+02	0.00E+00	0.00E+00	0.033
		59	3.148E+00	0.000E+00	0.000E+00	6.054E-03	0.000E+00	0.000E+00	2.42E+02	0.00E+00	0.00E+00	0.034
20	1	20	2.770E-01	0.000E+00	0.000E+00	7.671E-03	0.000E+00	0.000E+00	-2.13E+01	0.00E+00	0.00E+00	0.003
			-2.601E-01	0.000E+00	0.000E+00	-7.671E-03	0.000E+00	0.000E+00	-2.00E+01	0.00E+00	0.00E+00	0.003
		60	-2.432E-01	0.000E+00	0.000E+00	-7.671E-03	0.000E+00	0.000E+00	-1.87E+01	0.00E+00	0.00E+00	0.003
21	1	21	5.138E-02	0.000E+00	0.000E+00	-7.018E-03	0.000E+00	0.000E+00	-3.95E+00	0.00E+00	0.00E+00	0.001
			-3.451E-02	0.000E+00	0.000E+00	7.018E-03	0.000E+00	0.000E+00	-2.65E+00	0.00E+00	0.00E+00	0.000
		61	-1.764E-02	0.000E+00	0.000E+00	7.018E-03	0.000E+00	0.000E+00	-1.36E+00	0.00E+00	0.00E+00	0.000
22	1	22	2.121E+00	-3.347E-01	-7.131E-01	1.534E-03	1.782E+00	-8.421E-01	-6.91E+01	3.18E+02	-5.26E+02	0.127
			-2.082E+00	3.347E-01	7.131E-01	-1.534E-03	5.756E-04	5.405E-03	-6.78E+01	1.03E-01	3.38E+00	0.010
		62	-2.042E+00	3.347E-01	7.131E-01	-1.534E-03	1.783E+00	-8.313E-01	-6.65E+01	3.18E+02	-5.20E+02	0.126
30	1	30	2.150E+00	3.330E-01	7.132E-01	-1.383E-03	-1.784E+00	8.381E-01	-7.00E+01	-3.19E+02	5.24E+02	0.127
			-2.111E+00	-3.330E-01	-7.132E-01	1.383E-03	8.955E-04	-5.635E-03	-6.88E+01	1.60E-01	-3.52E+00	0.010
		70	-2.071E+00	-3.330E-01	-7.132E-01	1.383E-03	-1.782E+00	8.269E-01	-6.75E+01	-3.18E+02	5.17E+02	0.125
31	1	31	1.075E-01	0.000E+00	0.000E+00	7.172E-03	0.000E+00	0.000E+00	-8.27E+00	0.00E+00	0.00E+00	0.001
			-9.062E-02	0.000E+00	0.000E+00	-7.172E-03	0.000E+00	0.000E+00	-6.97E+00	0.00E+00	0.00E+00	0.001
		71	-7.376E-02	0.000E+00	0.000E+00	-7.172E-03	0.000E+00	0.000E+00	-5.67E+00	0.00E+00	0.00E+00	0.001
32	1	32	3.337E-01	0.000E+00	0.000E+00	-7.961E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
			-3.169E-01	0.000E+00	0.000E+00	7.961E-03	0.000E+00	0.000E+00	-2.44E+01	0.00E+00	0.00E+00	0.003
		72	-3.000E-01	0.000E+00	0.000E+00	7.961E-03	0.000E+00	0.000E+00	-2.31E+01	0.00E+00	0.00E+00	0.003
33	1	33	-3.058E+00	0.000E+00	0.000E+00	5.940E-03	0.000E+00	0.000E+00	2.35E+02	0.00E+00	0.00E+00	0.033
			3.075E+00	0.000E+00	0.000E+00	-5.940E-03	0.000E+00	0.000E+00	2.37E+02	0.00E+00	0.00E+00	0.033
		73	3.092E+00	0.000E+00	0.000E+00	-5.940E-03	0.000E+00	0.000E+00	2.38E+02	0.00E+00	0.00E+00	0.033
34	1	34	2.616E-01	0.000E+00	0.000E+00	-3.671E-03	0.000E+00	0.000E+00	-2.01E+01	0.00E+00	0.00E+00	0.003
			-2.448E-01	0.000E+00	0.000E+00	3.671E-03	0.000E+00	0.000E+00	-1.88E+01	0.00E+00	0.00E+00	0.003
		74	-2.279E-01	0.000E+00	0.000E+00	3.671E-03	0.000E+00	0.000E+00	-1.75E+01	0.00E+00	0.00E+00	0.002
35	1	35	-1.689E-01	0.000E+00	0.000E+00	2.334E-03	0.000E+00	0.000E+00	1.30E+01	0.00E+00	0.00E+00	0.002
			1.858E-01	0.000E+00	0.000E+00	-2.334E-03	0.000E+00	0.000E+00	1.43E+01	0.00E+00	0.00E+00	0.002
		75	2.026E-01	0.000E+00	0.000E+00	-2.334E-03	0.000E+00	0.000E+00	1.56E+01	0.00E+00	0.00E+00	0.002
36	1	36	3.159E+00	0.000E+00	0.000E+00	3.730E-06	0.000E+00	0.000E+00	-2.43E+02	0.00E+00	0.00E+00	0.034
			-3.143E+00	0.000E+00	0.000E+00	-3.730E-06	0.000E+00	0.000E+00	-2.42E+02	0.00E+00	0.00E+00	0.034
		76	-3.126E+00	0.000E+00	0.000E+00	-3.730E-06	0.000E+00	0.000E+00	-2.40E+02	0.00E+00	0.00E+00	0.033
37	1	37	-1.689E-01	0.000E+00	0.000E+00	-2.327E-03	0.000E+00	0.000E+00	1.30E+01	0.00E+00	0.00E+00	0.002
			1.858E-01	0.000E+00	0.000E+00	2.327E-03	0.000E+00	0.000E+00	1.43E+01	0.00E+00	0.00E+00	0.002
		77	2.027E-01	0.000E+00	0.000E+00	2.327E-03	0.000E+00	0.000E+00	1.56E+01	0.00E+00	0.00E+00	0.002
38	1	38	2.616E-01	0.000E+00	0.000E+00	3.676E-03	0.000E+00	0.000E+00	-2.01E+01	0.00E+00	0.00E+00	0.003
			-2.447E-01	0.000E+00	0.000E+00	-3.676E-03	0.000E+00	0.000E+00	-1.88E+01	0.00E+00	0.00E+00	0.003
		78	-2.279E-01	0.000E+00	0.000E+00	-3.676E-03	0.000E+00	0.000E+00	-1.75E+01	0.00E+00	0.00E+00	0.002
39	1	39	-3.058E+00	0.000E+00	0.000E+00	-5.936E-03	0.000E+00	0.000E+00	2.35E+02	0.00E+00	0.00E+00	0.033
			3.075E+00	0.000E+00	0.000E+00	5.936E-03	0.000E+00	0.000E+00	2.37E+02	0.00E+00	0.00E+00	0.033
		79	3.092E+00	0.000E+00	0.000E+00	5.936E-03	0.000E+00	0.000E+00	2.38E+02	0.00E+00	0.00E+00	0.033

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40	1	40	3.336E-01	0.000E+00	0.000E+00	7.961E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
			-3.168E-01	0.000E+00	0.000E+00	-7.961E-03	0.000E+00	0.000E+00	-2.44E+01	0.00E+00	0.00E+00	0.003
		80	-2.999E-01	0.000E+00	0.000E+00	-7.961E-03	0.000E+00	0.000E+00	-2.31E+01	0.00E+00	0.00E+00	0.003
41	1	41	1.081E-01	0.000E+00	0.000E+00	-7.174E-03	0.000E+00	0.000E+00	-8.31E+00	0.00E+00	0.00E+00	0.001
			-9.119E-02	0.000E+00	0.000E+00	7.174E-03	0.000E+00	0.000E+00	-7.01E+00	0.00E+00	0.00E+00	0.001
		81	-7.433E-02	0.000E+00	0.000E+00	7.174E-03	0.000E+00	0.000E+00	-5.72E+00	0.00E+00	0.00E+00	0.001
42	1	42	2.150E+00	-3.326E-01	7.128E-01	1.371E-03	-1.783E+00	-8.366E-01	-7.00E+01	-3.18E+02	-5.23E+02	0.127
			-2.110E+00	3.326E-01	-7.128E-01	-1.371E-03	6.911E-04	5.151E-03	-6.87E+01	1.23E-01	3.22E+00	0.010
		82	-2.070E+00	3.326E-01	-7.128E-01	-1.371E-03	-1.781E+00	-8.263E-01	-6.74E+01	-3.18E+02	-5.16E+02	0.125
50	1	10	1.861E+01	2.193E-02	1.234E-20	1.962E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.199
			-1.859E+01	8.660E-17	-1.234E-20	-1.962E-03	5.061E-20	4.496E-02	-1.43E+03	1.81E-16	5.46E+01	0.206
		51	-1.857E+01	2.193E-02	-1.234E-20	-1.962E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.198
51	1	12	-1.855E+01	2.193E-02	-3.882E-20	-2.197E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.198
			1.856E+01	-8.113E-17	3.882E-20	2.197E-03	-1.592E-19	4.496E-02	1.43E+03	-5.68E-16	5.46E+01	0.206
		51	1.858E+01	2.193E-02	3.882E-20	2.197E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.199
52	1	12	1.754E+01	2.193E-02	2.769E-20	-2.478E-03	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.187
			-1.752E+01	6.997E-17	-2.769E-20	2.478E-03	1.135E-19	4.496E-02	-1.35E+03	4.05E-16	5.46E+01	0.195
		53	-1.750E+01	2.193E-02	-2.769E-20	2.478E-03	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.187
53	1	14	-7.010E+00	2.193E-02	-2.004E-20	-6.780E-04	0.000E+00	0.000E+00	5.39E+02	0.00E+00	0.00E+00	0.075
			7.027E+00	-5.048E-17	2.004E-20	6.780E-04	-8.215E-20	4.496E-02	5.41E+02	-2.93E-16	5.46E+01	0.083
		53	7.044E+00	2.193E-02	2.004E-20	6.780E-04	0.000E+00	0.000E+00	5.42E+02	0.00E+00	0.00E+00	0.075
54	1	14	6.204E+00	2.193E-02	1.214E-20	-1.737E-04	0.000E+00	0.000E+00	-4.77E+02	0.00E+00	0.00E+00	0.066
			-6.187E+00	3.234E-17	-1.214E-20	1.737E-04	4.978E-20	4.496E-02	-4.76E+02	1.78E-16	5.46E+01	0.074
		55	-6.170E+00	2.193E-02	-1.214E-20	1.737E-04	0.000E+00	0.000E+00	-4.75E+02	0.00E+00	0.00E+00	0.066
55	1	16	-5.159E+00	2.193E-02	-1.363E-21	-1.527E-05	0.000E+00	0.000E+00	3.97E+02	0.00E+00	0.00E+00	0.055
			5.176E+00	-1.236E-17	1.363E-21	1.527E-05	-5.590E-21	4.496E-02	3.98E+02	-2.00E-17	5.46E+01	0.063
		55	5.193E+00	2.193E-02	1.363E-21	1.527E-05	0.000E+00	0.000E+00	3.99E+02	0.00E+00	0.00E+00	0.055
56	1	16	-5.160E+00	2.193E-02	-2.209E-21	1.620E-05	0.000E+00	0.000E+00	3.97E+02	0.00E+00	0.00E+00	0.055
			5.177E+00	-1.236E-17	2.209E-21	-1.620E-05	-9.058E-21	4.496E-02	3.98E+02	-3.23E-17	5.46E+01	0.063
		57	5.193E+00	2.193E-02	2.209E-21	-1.620E-05	0.000E+00	0.000E+00	3.99E+02	0.00E+00	0.00E+00	0.055
57	1	18	6.205E+00	2.193E-02	-1.232E-20	1.744E-04	0.000E+00	0.000E+00	-4.77E+02	0.00E+00	0.00E+00	0.066
			-6.188E+00	3.234E-17	1.232E-20	-1.744E-04	-5.050E-20	4.496E-02	-4.76E+02	-1.80E-16	5.46E+01	0.074
		57	-6.171E+00	2.193E-02	1.232E-20	-1.744E-04	0.000E+00	0.000E+00	-4.75E+02	0.00E+00	0.00E+00	0.066
58	1	18	-7.011E+00	2.193E-02	1.314E-20	6.779E-04	0.000E+00	0.000E+00	5.39E+02	0.00E+00	0.00E+00	0.075
			7.028E+00	-5.048E-17	-1.314E-20	-6.779E-04	5.386E-20	4.496E-02	5.41E+02	1.92E-16	5.46E+01	0.083
		59	7.045E+00	2.193E-02	-1.314E-20	-6.779E-04	0.000E+00	0.000E+00	5.42E+02	0.00E+00	0.00E+00	0.075
59	1	20	1.754E+01	2.193E-02	-2.607E-20	2.477E-03	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.187
			-1.752E+01	6.997E-17	2.607E-20	-2.477E-03	-1.069E-19	4.496E-02	-1.35E+03	-3.82E-16	5.46E+01	0.195
		59	-1.750E+01	2.193E-02	2.607E-20	-2.477E-03	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.187
60	1	20	-1.855E+01	2.193E-02	3.033E-20	2.194E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.198
			1.856E+01	-8.113E-17	-3.033E-20	-2.194E-03	1.243E-19	4.496E-02	1.43E+03	4.44E-16	5.46E+01	0.206
		61	1.858E+01	2.193E-02	-3.033E-20	-2.194E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.199
61	1	22	1.861E+01	2.193E-02	-1.221E-20	-1.967E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.199

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			-1.859E+01	8.660E-17	1.221E-20	1.967E-03	-5.005E-20	4.496E-02	-1.43E+03	-1.79E-16	5.46E+01	0.206
		61	-1.857E+01	2.193E-02	1.221E-20	1.967E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.198
70	1	30	1.851E+01	2.193E-02	5.279E-20	3.420E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.198
			-1.850E+01	8.650E-17	-5.279E-20	-3.420E-03	2.164E-19	4.496E-02	-1.42E+03	7.73E-16	5.46E+01	0.205
		71	-1.848E+01	2.193E-02	-5.279E-20	-3.420E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
71	1	32	-1.864E+01	2.193E-02	-2.514E-20	2.024E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.199
			1.866E+01	-8.112E-17	2.514E-20	-2.024E-03	-1.031E-19	4.496E-02	1.44E+03	-3.68E-16	5.46E+01	0.207
		71	1.867E+01	2.193E-02	2.514E-20	-2.024E-03	0.000E+00	0.000E+00	1.44E+03	0.00E+00	0.00E+00	0.200
72	1	32	1.745E+01	2.193E-02	1.402E-20	1.525E-03	0.000E+00	0.000E+00	-1.34E+03	0.00E+00	0.00E+00	0.186
			-1.743E+01	6.990E-17	-1.402E-20	-1.525E-03	5.747E-20	4.496E-02	-1.34E+03	2.05E-16	5.46E+01	0.194
		73	-1.741E+01	2.193E-02	-1.402E-20	-1.525E-03	0.000E+00	0.000E+00	-1.34E+03	0.00E+00	0.00E+00	0.186
73	1	34	-7.103E+00	2.193E-02	-1.049E-21	1.792E-03	0.000E+00	0.000E+00	5.46E+02	0.00E+00	0.00E+00	0.076
			7.120E+00	-5.049E-17	1.049E-21	-1.792E-03	-4.302E-21	4.496E-02	5.48E+02	-1.54E-17	5.46E+01	0.084
		73	7.137E+00	2.193E-02	1.049E-21	-1.792E-03	0.000E+00	0.000E+00	5.49E+02	0.00E+00	0.00E+00	0.076
74	1	34	6.115E+00	2.193E-02	-1.751E-20	1.600E-03	0.000E+00	0.000E+00	-4.70E+02	0.00E+00	0.00E+00	0.065
			-6.099E+00	3.229E-17	1.751E-20	-1.600E-03	-7.181E-20	4.496E-02	-4.69E+02	-2.56E-16	5.46E+01	0.073
		75	-6.082E+00	2.193E-02	1.751E-20	-1.600E-03	0.000E+00	0.000E+00	-4.68E+02	0.00E+00	0.00E+00	0.065
75	1	36	-5.252E+00	2.193E-02	2.085E-20	9.176E-04	0.000E+00	0.000E+00	4.04E+02	0.00E+00	0.00E+00	0.056
			5.269E+00	-1.240E-17	-2.085E-20	-9.176E-04	8.551E-20	4.496E-02	4.05E+02	3.05E-16	5.46E+01	0.064
		75	5.286E+00	2.193E-02	-2.085E-20	-9.176E-04	0.000E+00	0.000E+00	4.07E+02	0.00E+00	0.00E+00	0.056
76	1	36	-5.252E+00	2.193E-02	-2.443E-20	-9.168E-04	0.000E+00	0.000E+00	4.04E+02	0.00E+00	0.00E+00	0.056
			5.268E+00	-1.240E-17	2.443E-20	9.168E-04	-1.002E-19	4.496E-02	4.05E+02	-3.58E-16	5.46E+01	0.064
		77	5.285E+00	2.193E-02	2.443E-20	9.168E-04	0.000E+00	0.000E+00	4.07E+02	0.00E+00	0.00E+00	0.056
77	1	38	6.115E+00	2.193E-02	1.734E-20	-1.599E-03	0.000E+00	0.000E+00	-4.70E+02	0.00E+00	0.00E+00	0.065
			-6.098E+00	3.229E-17	-1.734E-20	1.599E-03	7.109E-20	4.496E-02	-4.69E+02	2.54E-16	5.46E+01	0.073
		77	-6.081E+00	2.193E-02	-1.734E-20	1.599E-03	0.000E+00	0.000E+00	-4.68E+02	0.00E+00	0.00E+00	0.065
78	1	38	-7.103E+00	2.193E-02	-5.852E-21	-1.793E-03	0.000E+00	0.000E+00	5.46E+02	0.00E+00	0.00E+00	0.076
			7.120E+00	-5.049E-17	5.852E-21	1.793E-03	-2.399E-20	4.496E-02	5.48E+02	-8.57E-17	5.46E+01	0.084
		79	7.137E+00	2.193E-02	5.852E-21	1.793E-03	0.000E+00	0.000E+00	5.49E+02	0.00E+00	0.00E+00	0.076
79	1	40	1.745E+01	2.193E-02	-1.239E-20	-1.527E-03	0.000E+00	0.000E+00	-1.34E+03	0.00E+00	0.00E+00	0.186
			-1.743E+01	6.989E-17	1.239E-20	1.527E-03	-5.081E-20	4.496E-02	-1.34E+03	-1.81E-16	5.46E+01	0.194
		79	-1.741E+01	2.193E-02	1.239E-20	1.527E-03	0.000E+00	0.000E+00	-1.34E+03	0.00E+00	0.00E+00	0.186
80	1	40	-1.864E+01	2.193E-02	1.665E-20	-2.026E-03	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.199
			1.866E+01	-8.112E-17	-1.665E-20	2.026E-03	6.826E-20	4.496E-02	1.44E+03	2.44E-16	5.46E+01	0.207
		81	1.867E+01	2.193E-02	-1.665E-20	2.026E-03	0.000E+00	0.000E+00	1.44E+03	0.00E+00	0.00E+00	0.200
81	1	42	1.851E+01	2.193E-02	-5.267E-20	-3.427E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.198
			-1.850E+01	8.650E-17	5.267E-20	3.427E-03	-2.159E-19	4.496E-02	-1.42E+03	-7.71E-16	5.46E+01	0.205
		81	-1.848E+01	2.193E-02	5.267E-20	3.427E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
100	1	30	-4.131E-02	3.348E-02	2.678E-19	-8.440E-03	0.000E+00	0.000E+00	3.18E+00	0.00E+00	0.00E+00	0.000
			4.131E-02	-3.469E-18	-2.678E-19	8.440E-03	1.329E-18	8.307E-02	3.18E+00	1.61E-15	2.97E+02	0.042
		11	4.131E-02	3.348E-02	-2.678E-19	8.440E-03	0.000E+00	0.000E+00	3.18E+00	0.00E+00	0.00E+00	0.000
101	1	32	-5.921E-02	3.348E-02	-2.771E-19	1.259E-03	0.000E+00	0.000E+00	4.55E+00	0.00E+00	0.00E+00	0.001
			5.921E-02	-3.469E-18	2.771E-19	-1.259E-03	-1.375E-18	8.307E-02	4.55E+00	-1.67E-15	2.97E+02	0.042

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		11	5.921E-02	3.348E-02	2.771E-19	-1.259E-03	0.000E+00	0.000E+00	4.55E+00	0.00E+00	0.00E+00	0.001
102	1	32	-9.267E-02	3.348E-02	7.910E-19	2.302E-03	0.000E+00	0.000E+00	7.13E+00	0.00E+00	0.00E+00	0.001
			9.267E-02	-3.469E-18	-7.910E-19	-2.302E-03	3.925E-18	8.307E-02	7.13E+00	4.77E-15	2.97E+02	0.042
		13	9.267E-02	3.348E-02	-7.910E-19	-2.302E-03	0.000E+00	0.000E+00	7.13E+00	0.00E+00	0.00E+00	0.001
103	1	34	-1.134E-01	3.348E-02	-7.959E-19	-3.405E-03	0.000E+00	0.000E+00	8.72E+00	0.00E+00	0.00E+00	0.001
			1.134E-01	-3.469E-18	7.959E-19	3.405E-03	-3.949E-18	8.307E-02	8.72E+00	-4.80E-15	2.97E+02	0.042
		13	1.134E-01	3.348E-02	7.959E-19	3.405E-03	0.000E+00	0.000E+00	8.72E+00	0.00E+00	0.00E+00	0.001
104	1	34	-1.301E-01	3.348E-02	9.833E-19	-1.561E-03	0.000E+00	0.000E+00	1.00E+01	0.00E+00	0.00E+00	0.001
			1.301E-01	-3.469E-18	-9.833E-19	1.561E-03	4.879E-18	8.307E-02	1.00E+01	5.92E-15	2.97E+02	0.043
		15	1.301E-01	3.348E-02	-9.833E-19	1.561E-03	0.000E+00	0.000E+00	1.00E+01	0.00E+00	0.00E+00	0.001
105	1	36	-1.344E-01	3.348E-02	-9.845E-19	-3.613E-03	0.000E+00	0.000E+00	1.03E+01	0.00E+00	0.00E+00	0.001
			1.344E-01	-3.469E-18	9.845E-19	3.613E-03	-4.885E-18	8.307E-02	1.03E+01	-5.93E-15	2.97E+02	0.043
		15	1.344E-01	3.348E-02	9.845E-19	3.613E-03	0.000E+00	0.000E+00	1.03E+01	0.00E+00	0.00E+00	0.001
106	1	36	-1.374E-01	3.348E-02	9.852E-19	3.611E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
			1.374E-01	-3.469E-18	-9.852E-19	-3.611E-03	4.889E-18	8.307E-02	1.06E+01	5.94E-15	2.97E+02	0.043
		17	1.374E-01	3.348E-02	-9.852E-19	-3.611E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
107	1	38	-1.270E-01	3.348E-02	-9.825E-19	1.559E-03	0.000E+00	0.000E+00	9.77E+00	0.00E+00	0.00E+00	0.001
			1.270E-01	-3.469E-18	9.825E-19	-1.559E-03	-4.876E-18	8.307E-02	9.77E+00	-5.92E-15	2.97E+02	0.043
		17	1.270E-01	3.348E-02	9.825E-19	-1.559E-03	0.000E+00	0.000E+00	9.77E+00	0.00E+00	0.00E+00	0.001
108	1	38	-1.164E-01	3.348E-02	7.967E-19	3.405E-03	0.000E+00	0.000E+00	8.96E+00	0.00E+00	0.00E+00	0.001
			1.164E-01	-3.469E-18	-7.967E-19	-3.405E-03	3.954E-18	8.307E-02	8.96E+00	4.80E-15	2.97E+02	0.042
		19	1.164E-01	3.348E-02	-7.967E-19	-3.405E-03	0.000E+00	0.000E+00	8.96E+00	0.00E+00	0.00E+00	0.001
109	1	40	-8.962E-02	3.348E-02	-7.899E-19	-2.301E-03	0.000E+00	0.000E+00	6.89E+00	0.00E+00	0.00E+00	0.001
			8.962E-02	-3.469E-18	7.899E-19	2.301E-03	-3.920E-18	8.307E-02	6.89E+00	-4.76E-15	2.97E+02	0.042
		19	8.962E-02	3.348E-02	7.899E-19	2.301E-03	0.000E+00	0.000E+00	6.89E+00	0.00E+00	0.00E+00	0.001
110	1	40	-6.227E-02	3.348E-02	2.783E-19	-1.256E-03	0.000E+00	0.000E+00	4.79E+00	0.00E+00	0.00E+00	0.001
			6.227E-02	-3.469E-18	-2.783E-19	1.256E-03	1.381E-18	8.307E-02	4.79E+00	1.68E-15	2.97E+02	0.042
		21	6.227E-02	3.348E-02	-2.783E-19	1.256E-03	0.000E+00	0.000E+00	4.79E+00	0.00E+00	0.00E+00	0.001
111	1	42	-3.827E-02	3.348E-02	-2.662E-19	8.454E-03	0.000E+00	0.000E+00	2.94E+00	0.00E+00	0.00E+00	0.000
			3.827E-02	-3.469E-18	2.662E-19	-8.454E-03	-1.321E-18	8.307E-02	2.94E+00	-1.60E-15	2.97E+02	0.042
		21	3.827E-02	3.348E-02	2.662E-19	-8.454E-03	0.000E+00	0.000E+00	2.94E+00	0.00E+00	0.00E+00	0.000
120	1	70	2.786E-02	3.348E-02	-4.628E-21	-9.228E-03	0.000E+00	0.000E+00	-2.14E+00	0.00E+00	0.00E+00	0.000
			-2.786E-02	-3.469E-18	4.628E-21	9.228E-03	-2.296E-20	8.307E-02	-2.14E+00	-2.79E-17	2.97E+02	0.042
		51	-2.786E-02	3.348E-02	4.628E-21	9.228E-03	0.000E+00	0.000E+00	-2.14E+00	0.00E+00	0.00E+00	0.000
121	1	72	5.717E-02	3.348E-02	5.428E-19	1.453E-03	0.000E+00	0.000E+00	-4.40E+00	0.00E+00	0.00E+00	0.001
			-5.717E-02	-3.469E-18	-5.428E-19	-1.453E-03	2.694E-18	8.307E-02	-4.40E+00	3.27E-15	2.97E+02	0.042
		51	-5.717E-02	3.348E-02	-5.428E-19	-1.453E-03	0.000E+00	0.000E+00	-4.40E+00	0.00E+00	0.00E+00	0.001
122	1	72	8.736E-02	3.348E-02	-5.409E-19	2.305E-03	0.000E+00	0.000E+00	-6.72E+00	0.00E+00	0.00E+00	0.001
			-8.736E-02	-3.469E-18	5.409E-19	-2.305E-03	-2.684E-18	8.307E-02	-6.72E+00	-3.26E-15	2.97E+02	0.042
		53	-8.736E-02	3.348E-02	5.409E-19	-2.305E-03	0.000E+00	0.000E+00	-6.72E+00	0.00E+00	0.00E+00	0.001
123	1	74	1.108E-01	3.348E-02	8.966E-19	-3.272E-03	0.000E+00	0.000E+00	-8.52E+00	0.00E+00	0.00E+00	0.001
			-1.108E-01	-3.469E-18	-8.966E-19	3.272E-03	4.449E-18	8.307E-02	-8.52E+00	5.40E-15	2.97E+02	0.042
		53	-1.108E-01	3.348E-02	-8.966E-19	3.272E-03	0.000E+00	0.000E+00	-8.52E+00	0.00E+00	0.00E+00	0.001

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124	1	74	1.289E-01	3.348E-02	-8.951E-19	-1.518E-03	0.000E+00	0.000E+00	-9.92E+00	0.00E+00	0.00E+00	0.001
			-1.289E-01	-3.469E-18	8.951E-19	1.518E-03	-4.442E-18	8.307E-02	-9.92E+00	-5.39E-15	2.97E+02	0.043
		55	-1.289E-01	3.348E-02	8.951E-19	1.518E-03	0.000E+00	0.000E+00	-9.92E+00	0.00E+00	0.00E+00	0.001
125	1	76	1.390E-01	3.348E-02	1.060E-18	-3.588E-03	0.000E+00	0.000E+00	-1.07E+01	0.00E+00	0.00E+00	0.001
			-1.390E-01	-3.469E-18	-1.060E-18	3.588E-03	5.262E-18	8.307E-02	-1.07E+01	6.39E-15	2.97E+02	0.043
		55	-1.390E-01	3.348E-02	-1.060E-18	3.588E-03	0.000E+00	0.000E+00	-1.07E+01	0.00E+00	0.00E+00	0.001
126	1	76	1.398E-01	3.348E-02	-1.059E-18	3.585E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.001
			-1.398E-01	-3.469E-18	1.059E-18	-3.585E-03	-5.257E-18	8.307E-02	-1.08E+01	-6.38E-15	2.97E+02	0.043
		57	-1.398E-01	3.348E-02	1.059E-18	-3.585E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.001
127	1	78	1.281E-01	3.348E-02	8.961E-19	1.516E-03	0.000E+00	0.000E+00	-9.86E+00	0.00E+00	0.00E+00	0.001
			-1.281E-01	-3.469E-18	-8.961E-19	-1.516E-03	4.447E-18	8.307E-02	-9.86E+00	5.40E-15	2.97E+02	0.043
		57	-1.281E-01	3.348E-02	-8.961E-19	-1.516E-03	0.000E+00	0.000E+00	-9.86E+00	0.00E+00	0.00E+00	0.001
128	1	78	1.116E-01	3.348E-02	-8.956E-19	3.271E-03	0.000E+00	0.000E+00	-8.59E+00	0.00E+00	0.00E+00	0.001
			-1.116E-01	-3.469E-18	8.956E-19	-3.271E-03	-4.444E-18	8.307E-02	-8.59E+00	-5.40E-15	2.97E+02	0.042
		59	-1.116E-01	3.348E-02	8.956E-19	-3.271E-03	0.000E+00	0.000E+00	-8.59E+00	0.00E+00	0.00E+00	0.001
129	1	80	8.656E-02	3.348E-02	5.419E-19	-2.305E-03	0.000E+00	0.000E+00	-6.66E+00	0.00E+00	0.00E+00	0.001
			-8.656E-02	-3.469E-18	-5.419E-19	2.305E-03	2.689E-18	8.307E-02	-6.66E+00	3.27E-15	2.97E+02	0.042
		59	-8.656E-02	3.348E-02	-5.419E-19	2.305E-03	0.000E+00	0.000E+00	-6.66E+00	0.00E+00	0.00E+00	0.001
130	1	80	5.797E-02	3.348E-02	-5.418E-19	-1.450E-03	0.000E+00	0.000E+00	-4.46E+00	0.00E+00	0.00E+00	0.001
			-5.797E-02	-3.469E-18	5.418E-19	1.450E-03	-2.689E-18	8.307E-02	-4.46E+00	-3.26E-15	2.97E+02	0.042
		61	-5.797E-02	3.348E-02	5.418E-19	1.450E-03	0.000E+00	0.000E+00	-4.46E+00	0.00E+00	0.00E+00	0.001
131	1	82	2.705E-02	3.348E-02	5.610E-21	9.232E-03	0.000E+00	0.000E+00	-2.08E+00	0.00E+00	0.00E+00	0.000
			-2.705E-02	-3.469E-18	-5.610E-21	-9.232E-03	2.784E-20	8.307E-02	-2.08E+00	3.38E-17	2.97E+02	0.041
		61	-2.705E-02	3.348E-02	-5.610E-21	-9.232E-03	0.000E+00	0.000E+00	-2.08E+00	0.00E+00	0.00E+00	0.000
140	1	31	3.799E-02	2.530E-02	1.239E-19	-4.648E-05	0.000E+00	0.000E+00	-2.92E+00	0.00E+00	0.00E+00	0.000
			-3.799E-02	1.430E-18	-1.239E-19	4.648E-05	4.647E-19	4.744E-02	-2.92E+00	5.64E-16	1.69E+02	0.024
		11	-3.799E-02	2.530E-02	-1.239E-19	4.648E-05	0.000E+00	0.000E+00	-2.92E+00	0.00E+00	0.00E+00	0.000
141	1	32	5.742E-02	2.530E-02	-6.209E-19	-8.212E-05	0.000E+00	0.000E+00	-4.42E+00	0.00E+00	0.00E+00	0.001
			-5.742E-02	1.058E-18	6.209E-19	8.212E-05	-2.328E-18	4.744E-02	-4.42E+00	-2.83E-15	1.69E+02	0.024
		12	-5.742E-02	2.530E-02	6.209E-19	8.212E-05	0.000E+00	0.000E+00	-4.42E+00	0.00E+00	0.00E+00	0.001
142	1	34	9.205E-02	2.530E-02	-2.534E-19	-1.848E-05	0.000E+00	0.000E+00	-7.08E+00	0.00E+00	0.00E+00	0.001
			-9.205E-02	7.186E-19	2.534E-19	1.848E-05	-9.501E-19	4.744E-02	-7.08E+00	-1.15E-15	1.69E+02	0.025
		14	-9.205E-02	2.530E-02	2.534E-19	1.848E-05	0.000E+00	0.000E+00	-7.08E+00	0.00E+00	0.00E+00	0.001
143	1	35	9.967E-02	2.530E-02	5.008E-20	-8.949E-07	0.000E+00	0.000E+00	-7.67E+00	0.00E+00	0.00E+00	0.001
			-9.967E-02	7.046E-19	-5.008E-20	8.949E-07	1.878E-19	4.744E-02	-7.67E+00	2.28E-16	1.69E+02	0.025
		15	-9.967E-02	2.530E-02	-5.008E-20	8.949E-07	0.000E+00	0.000E+00	-7.67E+00	0.00E+00	0.00E+00	0.001
144	1	37	9.967E-02	2.530E-02	-5.102E-20	-4.949E-07	0.000E+00	0.000E+00	-7.67E+00	0.00E+00	0.00E+00	0.001
			-9.967E-02	7.060E-19	5.102E-20	4.949E-07	-1.913E-19	4.744E-02	-7.67E+00	-2.32E-16	1.69E+02	0.025
		17	-9.967E-02	2.530E-02	5.102E-20	4.949E-07	0.000E+00	0.000E+00	-7.67E+00	0.00E+00	0.00E+00	0.001
145	1	38	9.205E-02	2.530E-02	2.523E-19	1.774E-05	0.000E+00	0.000E+00	-7.08E+00	0.00E+00	0.00E+00	0.001
			-9.205E-02	7.202E-19	-2.523E-19	-1.774E-05	9.460E-19	4.744E-02	-7.08E+00	1.15E-15	1.69E+02	0.025
		18	-9.205E-02	2.530E-02	-2.523E-19	-1.774E-05	0.000E+00	0.000E+00	-7.08E+00	0.00E+00	0.00E+00	0.001

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146	1	40	5.742E-02	2.530E-02	6.193E-19	8.947E-05	0.000E+00	0.000E+00	-4.42E+00	0.00E+00	0.00E+00	0.001
			-5.742E-02	1.056E-18	-6.193E-19	-8.947E-05	2.322E-18	4.744E-02	-4.42E+00	2.82E-15	1.69E+02	0.024
		20	-5.742E-02	2.530E-02	-6.193E-19	-8.947E-05	0.000E+00	0.000E+00	-4.42E+00	0.00E+00	0.00E+00	0.001
147	1	41	3.799E-02	2.530E-02	-1.259E-19	4.356E-05	0.000E+00	0.000E+00	-2.92E+00	0.00E+00	0.00E+00	0.000
			-3.799E-02	1.425E-18	1.259E-19	-4.356E-05	-4.720E-19	4.744E-02	-2.92E+00	-5.73E-16	1.69E+02	0.024
		21	-3.799E-02	2.530E-02	1.259E-19	-4.356E-05	0.000E+00	0.000E+00	-2.92E+00	0.00E+00	0.00E+00	0.000
150	1	71	-3.176E-02	2.530E-02	-6.521E-19	-2.267E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
			3.176E-02	1.330E-18	6.521E-19	2.267E-05	-2.445E-18	4.744E-02	2.44E+00	-2.97E-15	1.69E+02	0.024
		51	3.176E-02	2.530E-02	6.521E-19	2.267E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
151	1	72	-5.472E-02	2.530E-02	2.274E-19	-8.831E-05	0.000E+00	0.000E+00	4.21E+00	0.00E+00	0.00E+00	0.001
			5.472E-02	1.061E-18	-2.274E-19	8.831E-05	8.528E-19	4.744E-02	4.21E+00	1.04E-15	1.69E+02	0.024
		52	5.472E-02	2.530E-02	-2.274E-19	8.831E-05	0.000E+00	0.000E+00	4.21E+00	0.00E+00	0.00E+00	0.001
152	1	74	-9.040E-02	2.530E-02	1.495E-19	-1.953E-05	0.000E+00	0.000E+00	6.95E+00	0.00E+00	0.00E+00	0.001
			9.040E-02	7.878E-19	-1.495E-19	1.953E-05	5.608E-19	4.744E-02	6.95E+00	6.81E-16	1.69E+02	0.024
		54	9.040E-02	2.530E-02	-1.495E-19	1.953E-05	0.000E+00	0.000E+00	6.95E+00	0.00E+00	0.00E+00	0.001
153	1	75	-1.013E-01	2.530E-02	-2.223E-19	-6.594E-07	0.000E+00	0.000E+00	7.79E+00	0.00E+00	0.00E+00	0.001
			1.013E-01	7.812E-19	2.223E-19	6.594E-07	-8.337E-19	4.744E-02	7.79E+00	-1.01E-15	1.69E+02	0.025
		55	1.013E-01	2.530E-02	2.223E-19	6.594E-07	0.000E+00	0.000E+00	7.79E+00	0.00E+00	0.00E+00	0.001
154	1	77	-1.013E-01	2.530E-02	2.206E-19	-6.915E-07	0.000E+00	0.000E+00	7.79E+00	0.00E+00	0.00E+00	0.001
			1.013E-01	7.826E-19	-2.206E-19	6.915E-07	8.273E-19	4.744E-02	7.79E+00	1.00E-15	1.69E+02	0.025
		57	1.013E-01	2.530E-02	-2.206E-19	6.915E-07	0.000E+00	0.000E+00	7.79E+00	0.00E+00	0.00E+00	0.001
155	1	78	-9.040E-02	2.530E-02	-1.513E-19	1.858E-05	0.000E+00	0.000E+00	6.95E+00	0.00E+00	0.00E+00	0.001
			9.040E-02	7.895E-19	1.513E-19	-1.858E-05	-5.672E-19	4.744E-02	6.95E+00	-6.89E-16	1.69E+02	0.024
		58	9.040E-02	2.530E-02	1.513E-19	-1.858E-05	0.000E+00	0.000E+00	6.95E+00	0.00E+00	0.00E+00	0.001
156	1	80	-5.472E-02	2.530E-02	-2.291E-19	9.213E-05	0.000E+00	0.000E+00	4.21E+00	0.00E+00	0.00E+00	0.001
			5.472E-02	1.059E-18	2.291E-19	-9.213E-05	-8.591E-19	4.744E-02	4.21E+00	-1.04E-15	1.69E+02	0.024
		60	5.472E-02	2.530E-02	2.291E-19	-9.213E-05	0.000E+00	0.000E+00	4.21E+00	0.00E+00	0.00E+00	0.001
157	1	81	-3.176E-02	2.530E-02	6.504E-19	3.514E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
			3.176E-02	1.325E-18	-6.504E-19	-3.514E-05	2.439E-18	4.744E-02	2.44E+00	2.96E-15	1.69E+02	0.024
		61	3.176E-02	2.530E-02	-6.504E-19	-3.514E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
160	1	30	-6.977E-01	1.807E+00	1.188E-02	-1.051E-04	-4.434E-02	1.783E+00	2.27E+01	-2.77E+01	3.18E+02	0.051
			6.977E-01	-1.205E+00	-1.188E-02	1.051E-04	2.950E-02	9.925E-02	2.27E+01	1.84E+01	1.77E+01	0.008
		105	6.977E-01	-6.023E-01	-1.188E-02	1.051E-04	1.465E-02	1.229E+00	2.27E+01	9.16E+00	2.19E+02	0.035
161	1	105	-6.977E-01	6.023E-01	1.188E-02	-1.051E-04	-1.465E-02	-1.229E+00	2.27E+01	-9.16E+00	-2.19E+02	0.035
			6.977E-01	1.902E-04	-1.188E-02	1.051E-04	-1.944E-04	1.605E+00	2.27E+01	-1.22E-01	2.87E+02	0.043
		100	6.977E-01	6.027E-01	-1.188E-02	1.051E-04	-1.504E-02	1.228E+00	2.27E+01	-9.40E+00	2.19E+02	0.035
162	1	100	-6.977E-01	-6.027E-01	1.188E-02	-1.051E-04	1.504E-02	-1.228E+00	2.27E+01	9.40E+00	-2.19E+02	0.035
			6.977E-01	1.205E+00	-1.188E-02	1.051E-04	-2.989E-02	9.830E-02	2.27E+01	-1.87E+01	1.76E+01	0.008
		10	6.977E-01	1.808E+00	-1.188E-02	1.051E-04	-4.473E-02	-1.785E+00	2.27E+01	-2.80E+01	-3.19E+02	0.051
163	1	33	7.775E-02	3.235E+00	-1.704E-15	-4.200E-05	0.000E+00	0.000E+00	-2.53E+00	0.00E+00	0.00E+00	0.000
			-7.775E-02	-2.157E+00	1.704E-15	4.200E-05	2.241E-15	3.370E+00	-2.53E+00	1.40E-12	6.02E+02	0.084
		106	-7.775E-02	-1.078E+00	1.704E-15	4.200E-05	4.481E-15	5.392E+00	-2.53E+00	2.80E-12	9.63E+02	0.134
164	1	106	7.775E-02	1.078E+00	7.993E-16	-4.200E-05	-7.165E-15	-5.392E+00	-2.53E+00	-4.48E-12	-9.63E+02	0.134

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			-7.775E-02	-2.283E-13	-7.993E-16	4.200E-05	7.656E-15	6.066E+00	-2.53E+00	4.79E-12	1.08E+03	0.151
		101	-7.775E-02	1.078E+00	-7.993E-16	4.200E-05	7.831E-15	5.392E+00	-2.53E+00	4.89E-12	9.63E+02	0.134
165	1	101	7.775E-02	-1.078E+00	4.441E-16	-4.200E-05	-1.776E-15	-5.392E+00	-2.53E+00	-1.11E-12	-9.63E+02	0.134
			-7.775E-02	2.157E+00	-4.441E-16	4.200E-05	4.441E-16	3.370E+00	-2.53E+00	2.78E-13	6.02E+02	0.084
		13	-7.775E-02	3.235E+00	-4.441E-16	4.200E-05	0.000E+00	0.000E+00	-2.53E+00	0.00E+00	0.00E+00	0.000
166	1	36	1.029E-01	3.235E+00	1.438E-14	-1.350E-06	0.000E+00	0.000E+00	-3.35E+00	0.00E+00	0.00E+00	0.000
			-1.029E-01	-2.157E+00	-1.438E-14	1.350E-06	-1.664E-14	3.370E+00	-3.35E+00	-1.04E-11	6.02E+02	0.084
		107	-1.029E-01	-1.078E+00	-1.438E-14	1.350E-06	-3.506E-14	5.392E+00	-3.35E+00	-2.19E-11	9.63E+02	0.134
167	1	107	1.029E-01	1.078E+00	-1.286E-14	-1.350E-06	4.843E-14	-5.392E+00	-3.35E+00	3.03E-11	-9.63E+02	0.134
			-1.029E-01	4.974E-14	1.286E-14	1.350E-06	-3.422E-14	6.066E+00	-3.35E+00	-2.14E-11	1.08E+03	0.151
		102	-1.029E-01	1.078E+00	1.286E-14	1.350E-06	-2.162E-14	5.392E+00	-3.35E+00	-1.35E-11	9.63E+02	0.134
168	1	102	1.029E-01	-1.078E+00	8.882E-16	-1.350E-06	-1.776E-15	-5.392E+00	-3.35E+00	-1.11E-12	-9.63E+02	0.134
			-1.029E-01	2.157E+00	-8.882E-16	1.350E-06	8.882E-16	3.370E+00	-3.35E+00	5.55E-13	6.02E+02	0.084
		16	-1.029E-01	3.235E+00	-8.882E-16	1.350E-06	0.000E+00	0.000E+00	-3.35E+00	0.00E+00	0.00E+00	0.000
169	1	39	7.775E-02	3.235E+00	2.946E-15	4.370E-05	0.000E+00	0.000E+00	-2.53E+00	0.00E+00	0.00E+00	0.000
			-7.775E-02	-2.157E+00	-2.946E-15	-4.370E-05	-2.350E-15	3.370E+00	-2.53E+00	-1.47E-12	6.02E+02	0.084
		108	-7.775E-02	-1.078E+00	-2.946E-15	-4.370E-05	-4.700E-15	5.392E+00	-2.53E+00	-2.94E-12	9.63E+02	0.134
170	1	108	7.775E-02	1.078E+00	1.657E-14	4.370E-05	-2.025E-14	-5.392E+00	-2.53E+00	-1.27E-11	-9.63E+02	0.134
			-7.775E-02	8.082E-14	-1.657E-14	-4.370E-05	3.250E-15	6.066E+00	-2.53E+00	2.03E-12	1.08E+03	0.151
		103	-7.775E-02	1.078E+00	-1.657E-14	-4.370E-05	-1.940E-14	5.392E+00	-2.53E+00	-1.21E-11	9.63E+02	0.134
171	1	103	7.775E-02	-1.078E+00	-3.553E-15	4.370E-05	1.066E-14	-5.392E+00	-2.53E+00	6.66E-12	-9.63E+02	0.134
			-7.775E-02	2.157E+00	3.553E-15	-4.370E-05	-5.329E-15	3.370E+00	-2.53E+00	-3.33E-12	6.02E+02	0.084
		19	-7.775E-02	3.235E+00	3.553E-15	-4.370E-05	0.000E+00	0.000E+00	-2.53E+00	0.00E+00	0.00E+00	0.000
172	1	42	-6.979E-01	1.807E+00	-1.189E-02	1.734E-04	4.439E-02	1.783E+00	2.27E+01	2.77E+01	3.18E+02	0.051
			6.979E-01	-1.205E+00	1.189E-02	-1.734E-04	-2.953E-02	9.940E-02	2.27E+01	-1.85E+01	1.78E+01	0.008
		109	6.979E-01	-6.022E-01	1.189E-02	-1.734E-04	-1.467E-02	1.229E+00	2.27E+01	-9.17E+00	2.19E+02	0.035
173	1	109	-6.979E-01	6.022E-01	-1.189E-02	1.734E-04	1.467E-02	-1.229E+00	2.27E+01	9.17E+00	-2.19E+02	0.035
			6.979E-01	3.007E-04	1.189E-02	-1.734E-04	1.943E-04	1.605E+00	2.27E+01	1.21E-01	2.87E+02	0.043
		104	6.979E-01	6.028E-01	1.189E-02	-1.734E-04	1.505E-02	1.228E+00	2.27E+01	9.41E+00	2.19E+02	0.035
174	1	104	-6.979E-01	-6.028E-01	-1.189E-02	1.734E-04	-1.505E-02	-1.228E+00	2.27E+01	-9.41E+00	-2.19E+02	0.035
			6.979E-01	1.205E+00	1.189E-02	-1.734E-04	2.992E-02	9.790E-02	2.27E+01	1.87E+01	1.75E+01	0.008
		22	6.979E-01	1.808E+00	1.189E-02	-1.734E-04	4.478E-02	-1.785E+00	2.27E+01	2.80E+01	-3.19E+02	0.051
180	1	70	7.021E-01	1.808E+00	-5.233E-03	-1.510E-04	1.869E-02	1.786E+00	-2.29E+01	1.17E+01	3.19E+02	0.049
			-7.021E-01	-1.205E+00	5.233E-03	1.510E-04	-1.214E-02	9.769E-02	-2.29E+01	-7.59E+00	1.74E+01	0.007
		90	-7.021E-01	-6.028E-01	5.233E-03	1.510E-04	-5.603E-03	1.228E+00	-2.29E+01	-3.50E+00	2.19E+02	0.034
181	1	90	7.021E-01	6.028E-01	-5.233E-03	-1.510E-04	5.603E-03	-1.228E+00	-2.29E+01	3.50E+00	-2.19E+02	0.034
			-7.021E-01	-3.364E-04	5.233E-03	1.510E-04	9.383E-04	1.605E+00	-2.29E+01	5.86E-01	2.87E+02	0.043
		95	-7.021E-01	6.022E-01	5.233E-03	1.510E-04	7.480E-03	1.229E+00	-2.29E+01	4.67E+00	2.19E+02	0.034
182	1	95	7.021E-01	-6.022E-01	-5.233E-03	-1.510E-04	-7.480E-03	-1.229E+00	-2.29E+01	-4.67E+00	-2.19E+02	0.034
			-7.021E-01	1.205E+00	5.233E-03	1.510E-04	1.402E-02	9.937E-02	-2.29E+01	8.76E+00	1.77E+01	0.007
		50	-7.021E-01	1.807E+00	5.233E-03	1.510E-04	2.056E-02	-1.783E+00	-2.29E+01	1.29E+01	-3.18E+02	0.049
183	1	73	-7.496E-02	3.235E+00	4.049E-15	-4.104E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
			7.496E-02	-2.157E+00	-4.049E-15	4.104E-05	-6.838E-15	3.370E+00	2.44E+00	-4.27E-12	6.02E+02	0.084

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		91	7.496E-02	-1.078E+00	-4.049E-15	4.104E-05	-1.012E-14	5.392E+00	2.44E+00	-6.33E-12	9.63E+02	0.134
184	1	91	-7.496E-02	1.078E+00	5.884E-15	-4.104E-05	-2.604E-14	-5.392E+00	2.44E+00	-1.63E-11	-9.63E+02	0.134
			7.496E-02	-1.323E-13	-5.884E-15	4.104E-05	1.225E-14	6.066E+00	2.44E+00	7.66E-12	1.08E+03	0.151
		96	7.496E-02	1.078E+00	-5.884E-15	4.104E-05	-1.105E-15	5.392E+00	2.44E+00	-6.90E-13	9.63E+02	0.134
185	1	96	-7.496E-02	-1.078E+00	0.000E+00	-4.104E-05	0.000E+00	-5.392E+00	2.44E+00	0.00E+00	-9.63E+02	0.134
			7.496E-02	2.157E+00	0.000E+00	4.104E-05	1.776E-15	3.370E+00	2.44E+00	1.11E-12	6.02E+02	0.084
		53	7.496E-02	3.235E+00	0.000E+00	4.104E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
186	1	76	-1.052E-01	3.235E+00	-3.461E-16	-1.366E-06	0.000E+00	0.000E+00	3.43E+00	0.00E+00	0.00E+00	0.000
			1.052E-01	-2.157E+00	3.461E-16	1.366E-06	6.547E-16	3.370E+00	3.43E+00	4.09E-13	6.02E+02	0.084
		92	1.052E-01	-1.078E+00	3.461E-16	1.366E-06	1.309E-15	5.392E+00	3.43E+00	8.18E-13	9.63E+02	0.134
187	1	92	-1.052E-01	1.078E+00	2.022E-15	-1.366E-06	-1.065E-15	-5.392E+00	3.43E+00	-6.65E-13	-9.63E+02	0.134
			1.052E-01	-1.199E-13	-2.022E-15	1.366E-06	-6.961E-15	6.066E+00	3.43E+00	-4.35E-12	1.08E+03	0.151
		97	1.052E-01	1.078E+00	-2.022E-15	1.366E-06	-1.465E-14	5.392E+00	3.43E+00	-9.15E-12	9.63E+02	0.134
188	1	97	-1.052E-01	-1.078E+00	-5.329E-15	-1.366E-06	1.243E-14	-5.392E+00	3.43E+00	7.77E-12	-9.63E+02	0.134
			1.052E-01	2.157E+00	5.329E-15	1.366E-06	-6.217E-15	3.370E+00	3.43E+00	-3.89E-12	6.02E+02	0.084
		56	1.052E-01	3.235E+00	5.329E-15	1.366E-06	0.000E+00	0.000E+00	3.43E+00	0.00E+00	0.00E+00	0.000
189	1	79	-7.496E-02	3.235E+00	2.869E-15	4.358E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
			7.496E-02	-2.157E+00	-2.869E-15	-4.358E-05	-3.697E-15	3.370E+00	2.44E+00	-2.31E-12	6.02E+02	0.084
		93	7.496E-02	-1.078E+00	-2.869E-15	-4.358E-05	-8.283E-15	5.392E+00	2.44E+00	-5.18E-12	9.63E+02	0.134
190	1	93	-7.496E-02	1.078E+00	-5.684E-16	4.358E-05	7.905E-15	-5.392E+00	2.44E+00	4.94E-12	-9.63E+02	0.134
			7.496E-02	3.553E-14	5.684E-16	-4.358E-05	-8.137E-15	6.066E+00	2.44E+00	-5.09E-12	1.08E+03	0.151
		98	7.496E-02	1.078E+00	5.684E-16	-4.358E-05	-8.260E-15	5.392E+00	2.44E+00	-5.16E-12	9.63E+02	0.134
191	1	98	-7.496E-02	-1.078E+00	-1.332E-15	4.358E-05	3.553E-15	-5.392E+00	2.44E+00	2.22E-12	-9.63E+02	0.134
			7.496E-02	2.157E+00	1.332E-15	-4.358E-05	-1.332E-15	3.370E+00	2.44E+00	-8.33E-13	6.02E+02	0.084
		59	7.496E-02	3.235E+00	1.332E-15	-4.358E-05	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
192	1	82	7.024E-01	1.808E+00	5.237E-03	1.571E-04	-1.870E-02	1.785E+00	-2.29E+01	-1.17E+01	3.19E+02	0.049
			-7.024E-01	-1.205E+00	-5.237E-03	-1.571E-04	1.215E-02	9.819E-02	-2.29E+01	7.60E+00	1.75E+01	0.007
		94	-7.024E-01	-6.026E-01	-5.237E-03	-1.571E-04	5.608E-03	1.228E+00	-2.29E+01	3.51E+00	2.19E+02	0.034
193	1	94	7.024E-01	6.026E-01	5.237E-03	1.571E-04	-5.608E-03	-1.228E+00	-2.29E+01	-3.51E+00	-2.19E+02	0.034
			-7.024E-01	-1.545E-04	-5.237E-03	-1.571E-04	-9.385E-04	1.605E+00	-2.29E+01	-5.87E-01	2.87E+02	0.043
		99	-7.024E-01	6.023E-01	-5.237E-03	-1.571E-04	-7.485E-03	1.228E+00	-2.29E+01	-4.68E+00	2.19E+02	0.034
194	1	99	7.024E-01	-6.023E-01	5.237E-03	1.571E-04	7.485E-03	-1.228E+00	-2.29E+01	4.68E+00	-2.19E+02	0.034
			-7.024E-01	1.205E+00	-5.237E-03	-1.571E-04	-1.403E-02	9.896E-02	-2.29E+01	-8.77E+00	1.77E+01	0.007
		62	-7.024E-01	1.807E+00	-5.237E-03	-1.571E-04	-2.058E-02	-1.784E+00	-2.29E+01	-1.29E+01	-3.19E+02	0.049
200	1	10	-1.505E+01	2.429E-01	-1.518E-02	1.459E-03	4.508E-02	8.451E-01	6.02E+02	1.13E+02	1.31E+02	0.117
			1.505E+01	-2.007E-01	1.518E-02	-1.459E-03	4.257E-03	-1.241E-01	6.02E+02	1.06E+01	-1.92E+01	0.088
		11	1.505E+01	-1.586E-01	1.518E-02	-1.459E-03	5.359E-02	4.598E-01	6.02E+02	1.34E+02	7.11E+01	0.112
201	1	11	-1.504E+01	1.436E-02	2.279E-02	-4.893E-03	-6.061E-02	-4.543E-01	6.01E+02	-1.52E+02	-7.02E+01	0.114
			1.504E+01	2.781E-02	-2.279E-02	4.893E-03	-1.347E-02	4.325E-01	6.01E+02	-3.37E+01	6.68E+01	0.097
		12	1.504E+01	6.997E-02	-2.279E-02	4.893E-03	-8.755E-02	2.736E-01	6.01E+02	-2.19E+02	4.23E+01	0.120
202	1	12	-4.364E+01	2.079E-01	-3.462E-02	-4.671E-03	9.807E-02	-2.735E-01	1.75E+03	2.45E+02	-4.23E+01	0.282
			4.364E+01	-1.657E-01	3.462E-02	4.671E-03	1.446E-02	8.807E-01	1.75E+03	3.61E+01	1.36E+02	0.266
		13	4.364E+01	-1.236E-01	3.462E-02	4.671E-03	1.270E-01	1.351E+00	1.75E+03	3.17E+02	2.09E+02	0.316

203	1	13	-4.362E+01	-6.362E-02	4.334E-02	-9.333E-04	-1.330E-01	-1.350E+00	1.74E+03	-3.33E+02	-2.09E+02	0.318
			4.362E+01	1.058E-01	-4.334E-02	9.333E-04	-7.809E-03	1.075E+00	1.74E+03	-1.95E+01	1.66E+02	0.268
		14	4.362E+01	1.480E-01	-4.334E-02	9.333E-04	-1.487E-01	6.623E-01	1.74E+03	-3.72E+02	1.02E+02	0.308
204	1	14	-5.410E+01	7.733E-02	-4.871E-02	-1.333E-03	1.528E-01	-6.623E-01	2.16E+03	3.82E+02	-1.02E+02	0.368
			5.410E+01	-3.516E-02	4.871E-02	1.333E-03	5.487E-03	8.451E-01	2.16E+03	1.37E+01	1.31E+02	0.321
		15	5.410E+01	7.011E-03	4.871E-02	1.333E-03	1.638E-01	8.908E-01	2.16E+03	4.09E+02	1.38E+02	0.377
205	1	15	-5.409E+01	1.250E-01	5.144E-02	1.121E-05	-1.663E-01	-8.869E-01	2.16E+03	-4.16E+02	-1.37E+02	0.377
			5.409E+01	-8.281E-02	-5.144E-02	-1.121E-05	-9.138E-04	1.225E+00	2.16E+03	-2.28E+00	1.89E+02	0.327
		16	5.409E+01	-4.064E-02	-5.144E-02	-1.121E-05	-1.681E-01	1.425E+00	2.16E+03	-4.20E+02	2.20E+02	0.389
206	1	16	-5.409E+01	-4.063E-02	-5.144E-02	-1.373E-05	1.681E-01	-1.425E+00	2.16E+03	4.20E+02	-2.20E+02	0.389
			5.409E+01	8.280E-02	5.144E-02	1.373E-05	-9.144E-04	1.225E+00	2.16E+03	-2.29E+00	1.89E+02	0.327
		17	5.409E+01	1.250E-01	5.144E-02	1.373E-05	1.663E-01	8.869E-01	2.16E+03	4.16E+02	1.37E+02	0.377
207	1	17	-5.410E+01	7.001E-03	4.871E-02	1.330E-03	-1.638E-01	-8.909E-01	2.16E+03	-4.09E+02	-1.38E+02	0.377
			5.410E+01	3.517E-02	-4.871E-02	-1.330E-03	5.485E-03	8.451E-01	2.16E+03	1.37E+01	1.31E+02	0.321
		18	5.410E+01	7.734E-02	-4.871E-02	-1.330E-03	-1.528E-01	6.623E-01	2.16E+03	-3.82E+02	1.02E+02	0.368
208	1	18	-4.363E+01	1.480E-01	-4.334E-02	9.312E-04	1.487E-01	-6.623E-01	1.75E+03	3.72E+02	-1.02E+02	0.308
			4.363E+01	-1.058E-01	4.334E-02	-9.312E-04	-7.813E-03	1.075E+00	1.75E+03	-1.95E+01	1.66E+02	0.268
		19	4.363E+01	-6.364E-02	4.334E-02	-9.312E-04	1.330E-01	1.350E+00	1.75E+03	3.33E+02	2.09E+02	0.318
209	1	19	-4.364E+01	-1.236E-01	3.462E-02	4.668E-03	-1.270E-01	-1.351E+00	1.75E+03	-3.17E+02	-2.09E+02	0.316
			4.364E+01	1.657E-01	-3.462E-02	-4.668E-03	1.445E-02	8.808E-01	1.75E+03	3.61E+01	1.36E+02	0.266
		20	4.364E+01	2.079E-01	-3.462E-02	-4.668E-03	-9.808E-02	2.736E-01	1.75E+03	-2.45E+02	4.23E+01	0.282
210	1	20	-1.504E+01	6.989E-02	-2.280E-02	4.893E-03	8.756E-02	-2.737E-01	6.02E+02	2.19E+02	-4.23E+01	0.120
			1.504E+01	-2.772E-02	2.280E-02	-4.893E-03	-1.348E-02	4.323E-01	6.02E+02	-3.37E+01	6.68E+01	0.098
		21	1.504E+01	1.444E-02	2.280E-02	-4.893E-03	6.061E-02	4.539E-01	6.02E+02	1.52E+02	7.01E+01	0.114
211	1	21	-1.506E+01	-1.581E-01	1.518E-02	-1.466E-03	-5.359E-02	-4.594E-01	6.02E+02	-1.34E+02	-7.10E+01	0.112
			1.506E+01	2.003E-01	-1.518E-02	1.466E-03	4.240E-03	-1.229E-01	6.02E+02	1.06E+01	-1.90E+01	0.088
		22	1.506E+01	2.424E-01	-1.518E-02	1.466E-03	-4.511E-02	-8.423E-01	6.02E+02	-1.13E+02	-1.30E+02	0.117
300	1	30	-1.499E+01	2.368E-01	-1.488E-02	2.981E-03	4.364E-02	8.272E-01	6.00E+02	1.09E+02	1.28E+02	0.116
			1.499E+01	-1.947E-01	1.488E-02	-2.981E-03	4.731E-03	-1.260E-01	6.00E+02	1.18E+01	-1.95E+01	0.088
		31	1.499E+01	-1.525E-01	1.488E-02	-2.981E-03	5.310E-02	4.381E-01	6.00E+02	1.33E+02	6.77E+01	0.111
301	1	31	-1.499E+01	1.970E-02	2.310E-02	2.981E-03	-6.027E-02	-4.381E-01	6.00E+02	-1.51E+02	-6.77E+01	0.114
			1.499E+01	2.247E-02	-2.310E-02	-2.981E-03	-1.482E-02	4.337E-01	6.00E+02	-3.70E+01	6.70E+01	0.098
		32	1.499E+01	6.463E-02	-2.310E-02	-2.981E-03	-8.990E-02	2.921E-01	6.00E+02	-2.25E+02	4.51E+01	0.121
302	1	32	-4.357E+01	2.026E-01	-3.425E-02	2.693E-03	9.570E-02	-2.895E-01	1.74E+03	2.39E+02	-4.47E+01	0.281
			4.357E+01	-1.604E-01	3.425E-02	-2.693E-03	1.561E-02	8.794E-01	1.74E+03	3.90E+01	1.36E+02	0.266
		33	4.357E+01	-1.182E-01	3.425E-02	-2.693E-03	1.269E-01	1.332E+00	1.74E+03	3.17E+02	2.06E+02	0.315
303	1	33	-4.357E+01	-5.841E-02	4.350E-02	2.693E-03	-1.329E-01	-1.332E+00	1.74E+03	-3.32E+02	-2.06E+02	0.317
			4.357E+01	1.006E-01	-4.350E-02	-2.693E-03	-8.501E-03	1.074E+00	1.74E+03	-2.13E+01	1.66E+02	0.268
		34	4.357E+01	1.427E-01	-4.350E-02	-2.693E-03	-1.499E-01	6.785E-01	1.74E+03	-3.75E+02	1.05E+02	0.309
304	1	34	-5.404E+01	7.100E-02	-4.842E-02	1.637E-03	1.515E-01	-6.823E-01	2.16E+03	3.79E+02	-1.05E+02	0.367
			5.404E+01	-2.883E-02	4.842E-02	-1.637E-03	5.892E-03	8.445E-01	2.16E+03	1.47E+01	1.31E+02	0.320
		35	5.404E+01	1.333E-02	4.842E-02	-1.637E-03	1.633E-01	8.697E-01	2.16E+03	4.08E+02	1.34E+02	0.376

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305	1	35	-5.404E+01	1.303E-01	5.125E-02	1.637E-03	-1.656E-01	-8.697E-01	2.16E+03	-4.14E+02	-1.34E+02	0.376
			5.404E+01	-8.811E-02	-5.125E-02	-1.637E-03	-9.678E-04	1.225E+00	2.16E+03	-2.42E+00	1.89E+02	0.327
		36	5.404E+01	-4.594E-02	-5.125E-02	-1.637E-03	-1.675E-01	1.442E+00	2.16E+03	-4.19E+02	2.23E+02	0.389
306	1	36	-5.403E+01	-4.595E-02	-5.125E-02	-1.640E-03	1.675E-01	-1.442E+00	2.16E+03	4.19E+02	-2.23E+02	0.389
			5.403E+01	8.812E-02	5.125E-02	1.640E-03	-9.685E-04	1.225E+00	2.16E+03	-2.42E+00	1.89E+02	0.327
		37	5.403E+01	1.303E-01	5.125E-02	1.640E-03	1.656E-01	8.696E-01	2.16E+03	4.14E+02	1.34E+02	0.376
307	1	37	-5.403E+01	1.334E-02	4.842E-02	-1.640E-03	-1.633E-01	-8.696E-01	2.16E+03	-4.08E+02	-1.34E+02	0.376
			5.403E+01	2.882E-02	-4.842E-02	1.640E-03	5.890E-03	8.445E-01	2.16E+03	1.47E+01	1.31E+02	0.320
		38	5.403E+01	7.099E-02	-4.842E-02	1.640E-03	-1.515E-01	6.823E-01	2.16E+03	-3.79E+02	1.05E+02	0.367
308	1	38	-4.356E+01	1.427E-01	-4.350E-02	-2.696E-03	1.499E-01	-6.785E-01	1.74E+03	3.75E+02	-1.05E+02	0.309
			4.356E+01	-1.006E-01	4.350E-02	2.696E-03	-8.505E-03	1.074E+00	1.74E+03	-2.13E+01	1.66E+02	0.268
		39	4.356E+01	-5.839E-02	4.350E-02	2.696E-03	1.329E-01	1.332E+00	1.74E+03	3.32E+02	2.06E+02	0.317
309	1	39	-4.356E+01	-1.182E-01	3.425E-02	-2.696E-03	-1.269E-01	-1.332E+00	1.74E+03	-3.17E+02	-2.06E+02	0.315
			4.356E+01	1.604E-01	-3.425E-02	2.696E-03	1.561E-02	8.793E-01	1.74E+03	3.90E+01	1.36E+02	0.266
		40	4.356E+01	2.026E-01	-3.425E-02	2.696E-03	-9.571E-02	2.894E-01	1.74E+03	-2.39E+02	4.47E+01	0.281
310	1	40	-1.498E+01	6.471E-02	-2.311E-02	-2.985E-03	8.991E-02	-2.920E-01	5.99E+02	2.25E+02	-4.51E+01	0.121
			1.498E+01	-2.254E-02	2.311E-02	2.985E-03	-1.482E-02	4.338E-01	5.99E+02	-3.71E+01	6.70E+01	0.098
		41	1.498E+01	1.962E-02	2.311E-02	2.985E-03	6.027E-02	4.386E-01	5.99E+02	1.51E+02	6.78E+01	0.114
311	1	41	-1.498E+01	-1.530E-01	1.489E-02	-2.985E-03	-5.310E-02	-4.385E-01	5.99E+02	-1.33E+02	-6.78E+01	0.111
			1.498E+01	1.952E-01	-1.489E-02	2.985E-03	4.714E-03	-1.272E-01	5.99E+02	1.18E+01	-1.97E+01	0.088
		42	1.498E+01	2.373E-01	-1.489E-02	2.985E-03	-4.367E-02	-8.300E-01	5.99E+02	-1.09E+02	-1.28E+02	0.116
500	1	50	3.290E-01	2.342E-01	1.076E-02	2.408E-04	-2.211E-02	8.308E-01	-1.32E+01	-5.53E+01	1.28E+02	0.027
			-3.290E-01	-1.921E-01	-1.076E-02	-2.408E-04	-1.287E-02	-1.381E-01	-1.32E+01	-3.22E+01	-2.13E+01	0.009
		51	-3.290E-01	-1.499E-01	-1.076E-02	-2.408E-04	-4.785E-02	4.176E-01	-1.32E+01	-1.20E+02	6.45E+01	0.027
501	1	51	2.976E+01	3.612E-02	-2.173E-02	-3.458E-03	5.472E-02	-4.117E-01	-1.19E+03	1.37E+02	-6.36E+01	0.193
			-2.976E+01	6.048E-03	2.173E-02	3.458E-03	1.590E-02	4.605E-01	-1.19E+03	3.98E+01	7.12E+01	0.181
		52	-2.976E+01	4.822E-02	2.173E-02	3.458E-03	8.653E-02	3.724E-01	-1.19E+03	2.16E+02	5.75E+01	0.203
502	1	52	2.976E+01	1.696E-01	3.298E-02	-3.458E-03	-9.420E-02	-3.723E-01	-1.19E+03	-2.36E+02	-5.75E+01	0.206
			-2.976E+01	-1.274E-01	-3.298E-02	3.458E-03	-1.300E-02	8.549E-01	-1.19E+03	-3.25E+01	1.32E+02	0.188
		53	-2.976E+01	-8.525E-02	-3.298E-02	3.458E-03	-1.202E-01	1.201E+00	-1.19E+03	-3.00E+02	1.86E+02	0.233
503	1	53	4.920E+01	-2.222E-02	-4.182E-02	-1.232E-03	1.243E-01	-1.200E+00	-1.97E+03	3.11E+02	-1.85E+02	0.342
			-4.920E+01	6.438E-02	4.182E-02	1.232E-03	1.159E-02	1.059E+00	-1.97E+03	2.90E+01	1.64E+02	0.300
		54	-4.920E+01	1.066E-01	4.182E-02	1.232E-03	1.475E-01	7.813E-01	-1.97E+03	3.69E+02	1.21E+02	0.341
504	1	54	4.920E+01	4.058E-02	4.858E-02	-1.232E-03	-1.512E-01	-7.812E-01	-1.97E+03	-3.78E+02	-1.21E+02	0.343
			-4.920E+01	1.586E-03	-4.858E-02	1.232E-03	-6.725E-03	8.446E-01	-1.97E+03	-1.68E+01	1.31E+02	0.294
		55	-4.920E+01	4.376E-02	-4.858E-02	1.232E-03	-1.646E-01	7.709E-01	-1.97E+03	-4.12E+02	1.19E+02	0.347
505	1	55	5.820E+01	1.672E-01	-5.260E-02	-1.426E-06	1.670E-01	-7.671E-01	-2.33E+03	4.17E+02	-1.19E+02	0.398
			-5.820E+01	-1.250E-01	5.260E-02	1.426E-06	4.005E-03	1.242E+00	-2.33E+03	1.00E+01	1.92E+02	0.351
		56	-5.820E+01	-8.285E-02	5.260E-02	1.426E-06	1.750E-01	1.580E+00	-2.33E+03	4.37E+02	2.44E+02	0.418
506	1	56	5.820E+01	-8.284E-02	5.260E-02	-1.426E-06	-1.750E-01	-1.580E+00	-2.33E+03	-4.37E+02	-2.44E+02	0.418
			-5.820E+01	1.250E-01	-5.260E-02	1.426E-06	4.005E-03	1.242E+00	-2.33E+03	1.00E+01	1.92E+02	0.351
		57	-5.820E+01	1.672E-01	-5.260E-02	1.426E-06	-1.670E-01	7.671E-01	-2.33E+03	-4.17E+02	1.19E+02	0.398
507	1	57	4.920E+01	4.374E-02	-4.858E-02	1.229E-03	1.646E-01	-7.710E-01	-1.97E+03	4.12E+02	-1.19E+02	0.347

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			-4.920E+01	-1.575E-03	4.858E-02	-1.229E-03	-6.725E-03	8.446E-01	-1.97E+03	-1.68E+01	1.31E+02	0.294
		58	-4.920E+01	4.059E-02	4.858E-02	-1.229E-03	1.512E-01	7.812E-01	-1.97E+03	3.78E+02	1.21E+02	0.343
508	1	58	4.920E+01	1.066E-01	4.182E-02	1.229E-03	-1.475E-01	-7.812E-01	-1.97E+03	-3.69E+02	-1.21E+02	0.341
			-4.920E+01	-6.441E-02	-4.182E-02	-1.229E-03	1.159E-02	1.059E+00	-1.97E+03	2.90E+01	1.64E+02	0.300
		59	-4.920E+01	-2.224E-02	-4.182E-02	-1.229E-03	-1.243E-01	1.200E+00	-1.97E+03	-3.11E+02	1.85E+02	0.342
509	1	59	2.976E+01	-8.529E-02	-3.299E-02	3.454E-03	1.202E-01	-1.201E+00	-1.19E+03	3.01E+02	-1.86E+02	0.233
			-2.976E+01	1.275E-01	3.299E-02	-3.454E-03	-1.300E-02	8.550E-01	-1.19E+03	-3.25E+01	1.32E+02	0.188
		60	-2.976E+01	1.696E-01	3.299E-02	-3.454E-03	9.420E-02	3.722E-01	-1.19E+03	2.36E+02	5.75E+01	0.206
510	1	60	2.976E+01	4.829E-02	2.173E-02	3.454E-03	-8.653E-02	-3.723E-01	-1.19E+03	-2.16E+02	-5.75E+01	0.203
			-2.976E+01	-6.124E-03	-2.173E-02	-3.454E-03	1.590E-02	4.607E-01	-1.19E+03	3.98E+01	7.12E+01	0.181
		61	-2.976E+01	3.605E-02	-2.173E-02	-3.454E-03	-5.472E-02	4.121E-01	-1.19E+03	-1.37E+02	6.37E+01	0.193
511	1	61	3.294E-01	-1.501E-01	-1.076E-02	-2.438E-04	4.784E-02	-4.180E-01	-1.32E+01	1.20E+02	-6.46E+01	0.027
			-3.294E-01	1.922E-01	1.076E-02	2.438E-04	-1.287E-02	-1.382E-01	-1.32E+01	-3.22E+01	-2.14E+01	0.009
		62	-3.294E-01	2.344E-01	1.076E-02	2.438E-04	2.211E-02	-8.314E-01	-1.32E+01	5.53E+01	-1.28E+02	0.027
700	1	70	3.200E-01	2.295E-01	9.984E-03	2.619E-03	-2.007E-02	8.197E-01	-1.28E+01	-5.02E+01	1.27E+02	0.026
			-3.200E-01	-1.873E-01	-9.984E-03	-2.619E-03	-1.238E-02	-1.423E-01	-1.28E+01	-3.09E+01	-2.20E+01	0.009
		71	-3.200E-01	-1.452E-01	-9.984E-03	-2.619E-03	-4.483E-02	3.980E-01	-1.28E+01	-1.12E+02	6.15E+01	0.026
701	1	71	2.977E+01	4.099E-02	-2.177E-02	3.726E-03	5.532E-02	-3.980E-01	-1.19E+03	1.38E+02	-6.15E+01	0.193
			-2.977E+01	1.183E-03	2.177E-02	-3.726E-03	1.545E-02	4.627E-01	-1.19E+03	3.86E+01	7.15E+01	0.181
		72	-2.977E+01	4.335E-02	2.177E-02	-3.726E-03	8.622E-02	3.903E-01	-1.19E+03	2.16E+02	6.03E+01	0.204
702	1	72	2.975E+01	1.644E-01	3.273E-02	3.168E-03	-9.418E-02	-3.876E-01	-1.19E+03	-2.35E+02	-5.99E+01	0.206
			-2.975E+01	-1.222E-01	-3.273E-02	-3.168E-03	-1.219E-02	8.534E-01	-1.19E+03	-3.05E+01	1.32E+02	0.188
		73	-2.975E+01	-8.006E-02	-3.273E-02	-3.168E-03	-1.186E-01	1.182E+00	-1.19E+03	-2.96E+02	1.83E+02	0.232
703	1	73	4.921E+01	-1.701E-02	-4.223E-02	2.956E-03	1.265E-01	-1.182E+00	-1.97E+03	3.16E+02	-1.83E+02	0.343
			-4.921E+01	5.918E-02	4.223E-02	-2.956E-03	1.072E-02	1.058E+00	-1.97E+03	2.68E+01	1.64E+02	0.300
		74	-4.921E+01	1.013E-01	4.223E-02	-2.956E-03	1.480E-01	7.975E-01	-1.97E+03	3.70E+02	1.23E+02	0.342
704	1	74	4.920E+01	3.428E-02	4.854E-02	1.807E-03	-1.516E-01	-8.011E-01	-1.97E+03	-3.79E+02	-1.24E+02	0.343
			-4.920E+01	7.890E-03	-4.854E-02	-1.807E-03	-6.118E-03	8.440E-01	-1.97E+03	-1.53E+01	1.30E+02	0.294
		75	-4.920E+01	5.006E-02	-4.854E-02	-1.807E-03	-1.639E-01	7.498E-01	-1.97E+03	-4.10E+02	1.16E+02	0.346
705	1	75	5.821E+01	1.725E-01	-5.275E-02	2.347E-03	1.677E-01	-7.498E-01	-2.33E+03	4.19E+02	-1.16E+02	0.398
			-5.821E+01	-1.303E-01	5.275E-02	-2.347E-03	3.693E-03	1.242E+00	-2.33E+03	9.23E+00	1.92E+02	0.351
		76	-5.821E+01	-8.817E-02	5.275E-02	-2.347E-03	1.751E-01	1.597E+00	-2.33E+03	4.38E+02	2.47E+02	0.418
706	1	76	5.821E+01	-8.817E-02	5.275E-02	-2.351E-03	-1.751E-01	-1.597E+00	-2.33E+03	-4.38E+02	-2.47E+02	0.418
			-5.821E+01	1.303E-01	-5.275E-02	2.351E-03	3.694E-03	1.242E+00	-2.33E+03	9.23E+00	1.92E+02	0.351
		77	-5.821E+01	1.725E-01	-5.275E-02	2.351E-03	-1.677E-01	7.498E-01	-2.33E+03	-4.19E+02	1.16E+02	0.398
707	1	77	4.920E+01	5.007E-02	-4.854E-02	-1.809E-03	1.639E-01	-7.498E-01	-1.97E+03	4.10E+02	-1.16E+02	0.346
			-4.920E+01	-7.901E-03	4.854E-02	1.809E-03	-6.118E-03	8.440E-01	-1.97E+03	-1.53E+01	1.30E+02	0.294
		78	-4.920E+01	3.427E-02	4.854E-02	1.809E-03	1.516E-01	8.011E-01	-1.97E+03	3.79E+02	1.24E+02	0.343
708	1	78	4.921E+01	1.013E-01	4.223E-02	-2.959E-03	-1.480E-01	-7.975E-01	-1.97E+03	-3.70E+02	-1.23E+02	0.342
			-4.921E+01	-5.915E-02	-4.223E-02	2.959E-03	1.072E-02	1.058E+00	-1.97E+03	2.68E+01	1.64E+02	0.300
		79	-4.921E+01	-1.698E-02	-4.223E-02	2.959E-03	-1.265E-01	1.182E+00	-1.97E+03	-3.16E+02	1.83E+02	0.343
709	1	79	2.975E+01	-8.002E-02	-3.273E-02	-3.170E-03	1.186E-01	-1.182E+00	-1.19E+03	2.96E+02	-1.83E+02	0.232
			-2.975E+01	1.222E-01	3.273E-02	3.170E-03	-1.219E-02	8.533E-01	-1.19E+03	-3.05E+01	1.32E+02	0.188

		80	-2.975E+01	1.644E-01	3.273E-02	3.170E-03	9.418E-02	3.877E-01	-1.19E+03	2.35E+02	5.99E+01	0.206
710	1	80	2.977E+01	4.328E-02	2.178E-02	-3.730E-03	-8.622E-02	-3.905E-01	-1.19E+03	-2.16E+02	-6.03E+01	0.204
			-2.977E+01	-1.106E-03	-2.178E-02	3.730E-03	1.545E-02	4.626E-01	-1.19E+03	3.86E+01	7.15E+01	0.181
		81	-2.977E+01	4.106E-02	-2.178E-02	3.730E-03	-5.532E-02	3.976E-01	-1.19E+03	-1.38E+02	6.15E+01	0.193
711	1	81	3.201E-01	-1.450E-01	-9.984E-03	-2.620E-03	4.482E-02	-3.976E-01	-1.28E+01	1.12E+02	-6.14E+01	0.026
			-3.201E-01	1.872E-01	9.984E-03	2.620E-03	-1.238E-02	-1.422E-01	-1.28E+01	-3.09E+01	-2.20E+01	0.009
		82	-3.201E-01	2.294E-01	9.984E-03	2.620E-03	2.007E-02	-8.191E-01	-1.28E+01	5.02E+01	-1.27E+02	0.026
900	1	900	1.110E-16	1.566E+01	8.852E-03	6.639E-03	-2.434E-02	4.294E+01	-1.88E-15	-4.51E+00	1.38E+03	0.192
			-1.110E-16	-1.561E+01	-8.852E-03	-6.639E-03	1.217E-02	-2.144E+01	-1.88E-15	2.25E+00	-6.87E+02	0.096
		908	-1.110E-16	-1.557E+01	-8.852E-03	-6.639E-03	6.939E-18	7.105E-15	-1.88E-15	1.28E-15	2.28E-13	0.000
901	1	909	8.512E-04	-1.557E+01	8.852E-03	6.639E-03	1.128E-17	-6.384E-04	-1.44E-02	2.09E-15	-2.05E-02	0.000
			-8.512E-04	1.561E+01	-8.852E-03	-6.639E-03	-1.217E-02	-2.144E+01	-1.44E-02	-2.25E+00	-6.87E+02	0.096
		902	-8.512E-04	1.566E+01	-8.852E-03	-6.639E-03	-2.434E-02	-4.294E+01	-1.44E-02	-4.51E+00	-1.38E+03	0.192
902	1	903	2.220E-16	1.566E+01	0.000E+00	0.000E+00	0.000E+00	4.294E+01	-3.76E-15	0.00E+00	1.38E+03	0.191
			-2.220E-16	-1.561E+01	0.000E+00	0.000E+00	0.000E+00	-2.144E+01	-3.76E-15	0.00E+00	-6.87E+02	0.095
		910	-2.220E-16	-1.557E+01	0.000E+00	0.000E+00	0.000E+00	-1.421E-14	-3.76E-15	0.00E+00	-4.55E-13	0.000
903	1	911	-8.512E-04	-1.557E+01	0.000E+00	0.000E+00	0.000E+00	6.384E-04	1.44E-02	0.00E+00	2.05E-02	0.000
			8.512E-04	1.561E+01	0.000E+00	0.000E+00	0.000E+00	-2.144E+01	1.44E-02	0.00E+00	-6.87E+02	0.095
		905	8.512E-04	1.566E+01	0.000E+00	0.000E+00	0.000E+00	-4.294E+01	1.44E-02	0.00E+00	-1.38E+03	0.191
904	1	901	2.220E-16	1.567E+01	8.852E-03	6.639E-03	-3.320E-02	5.860E+01	-6.34E-15	0.00E+00	0.00E+00	0.000
			-2.220E-16	-1.566E+01	-8.852E-03	-6.639E-03	2.877E-02	-5.077E+01	-6.34E-15	0.00E+00	0.00E+00	0.000
		900	-2.220E-16	-1.566E+01	-8.852E-03	-6.639E-03	2.434E-02	-4.294E+01	-6.34E-15	0.00E+00	0.00E+00	0.000
905	1	902	8.512E-04	-1.566E+01	8.852E-03	6.639E-03	2.434E-02	4.294E+01	-2.43E-02	0.00E+00	0.00E+00	0.000
			-8.512E-04	1.567E+01	-8.852E-03	-6.639E-03	-2.877E-02	-5.077E+01	-2.43E-02	0.00E+00	0.00E+00	0.000
		901	-8.512E-04	1.567E+01	-8.852E-03	-6.639E-03	-3.320E-02	-5.860E+01	-2.43E-02	0.00E+00	0.00E+00	0.000
906	1	904	4.441E-16	1.567E+01	0.000E+00	0.000E+00	0.000E+00	5.860E+01	-1.27E-14	0.00E+00	0.00E+00	0.000
			-4.441E-16	-1.567E+01	0.000E+00	0.000E+00	0.000E+00	-5.077E+01	-1.27E-14	0.00E+00	0.00E+00	0.000
		903	-4.441E-16	-1.566E+01	0.000E+00	0.000E+00	0.000E+00	-4.294E+01	-1.27E-14	0.00E+00	0.00E+00	0.000
910	1	910	1.557E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
			-1.556E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
		9910	-1.555E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
911	1	911	1.557E+01	0.000E+00	8.512E-04	0.000E+00	-6.384E-04	0.000E+00	-2.64E+02	-1.18E-01	0.00E+00	0.037
			-1.556E+01	0.000E+00	-8.512E-04	0.000E+00	3.192E-04	0.000E+00	-2.64E+02	5.91E-02	0.00E+00	0.037
		9911	-1.555E+01	0.000E+00	-8.512E-04	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
912	1	9910	1.555E+01	5.741E-12	-2.309E-14	4.008E-14	1.155E-14	1.023E-12	-2.64E+02	2.14E-12	3.28E-11	0.037
			-1.554E+01	-5.741E-12	2.309E-14	-4.008E-14	-6.217E-15	4.547E-13	-2.63E+02	-1.15E-12	1.46E-11	0.037
		22	-1.553E+01	-5.741E-12	2.309E-14	-4.008E-14	0.000E+00	1.876E-12	-2.63E+02	0.00E+00	6.01E-11	0.037
913	1	9911	1.555E+01	-5.372E-12	8.512E-04	2.565E-14	-2.487E-14	-1.648E-12	-2.64E+02	-4.61E-12	-5.28E-11	0.037
			-1.554E+01	5.372E-12	-8.512E-04	-2.565E-14	-2.128E-04	2.842E-13	-2.63E+02	-3.94E-02	9.11E-12	0.037
		42	-1.553E+01	5.372E-12	-8.512E-04	-2.565E-14	-4.256E-04	-1.137E-12	-2.63E+02	-7.88E-02	-3.64E-11	0.037
914	1	908	1.557E+01	8.852E-03	0.000E+00	0.000E+00	0.000E+00	6.639E-03	-2.64E+02	0.00E+00	2.13E-01	0.037
			-1.556E+01	-8.852E-03	0.000E+00	0.000E+00	0.000E+00	-3.320E-03	-2.64E+02	0.00E+00	-1.06E-01	0.037
		9908	-1.555E+01	-8.852E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037

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915	1	909	1.557E+01	-8.852E-03	-8.512E-04	0.000E+00	6.384E-04	-6.639E-03	-2.64E+02	1.18E-01	-2.13E-01	0.037
			-1.556E+01	8.852E-03	8.512E-04	0.000E+00	-3.192E-04	3.320E-03	-2.64E+02	-5.91E-02	1.06E-01	0.037
		9909	-1.555E+01	8.852E-03	8.512E-04	0.000E+00	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
916	1	9908	1.555E+01	8.852E-03	-3.553E-15	-5.551E-16	4.441E-15	-1.137E-13	-2.64E+02	8.22E-13	-3.64E-12	0.037
			-1.554E+01	-8.852E-03	3.553E-15	5.551E-16	-1.776E-15	2.213E-03	-2.63E+02	-3.29E-13	7.09E-02	0.037
		10	-1.553E+01	-8.852E-03	3.553E-15	5.551E-16	0.000E+00	4.426E-03	-2.63E+02	0.00E+00	1.42E-01	0.037
917	1	9909	1.555E+01	-8.852E-03	-8.512E-04	-3.553E-15	-2.043E-14	3.979E-13	-2.64E+02	-3.78E-12	1.28E-11	0.037
			-1.554E+01	8.852E-03	8.512E-04	3.553E-15	2.128E-04	-2.213E-03	-2.63E+02	3.94E-02	-7.09E-02	0.037
		30	-1.553E+01	8.852E-03	8.512E-04	3.553E-15	4.256E-04	-4.426E-03	-2.63E+02	7.88E-02	-1.42E-01	0.037
907	1	905	-8.512E-04	-1.566E+01	0.000E+00	0.000E+00	0.000E+00	4.294E+01	2.43E-02	0.00E+00	0.00E+00	0.000
			8.512E-04	1.566E+01	0.000E+00	0.000E+00	0.000E+00	-5.077E+01	2.43E-02	0.00E+00	0.00E+00	0.000
		904	8.512E-04	1.567E+01	0.000E+00	0.000E+00	0.000E+00	-5.860E+01	2.43E-02	0.00E+00	0.00E+00	0.000
908	1	906	3.274E+01	-5.243E-12	-8.512E-04	-6.639E-02	1.730E-02	-1.201E-10	-2.71E+02	2.34E-01	-8.15E-10	0.038
			-3.204E+01	5.243E-12	8.512E-04	6.639E-02	-7.869E-03	6.200E-11	-2.65E+02	-1.07E-01	4.21E-10	0.037
		901	-3.135E+01	5.243E-12	8.512E-04	6.639E-02	1.558E-03	3.932E-12	-2.59E+02	2.11E-02	2.67E-11	0.036
909	1	907	3.274E+01	0.000E+00	8.512E-04	0.000E+00	-1.730E-02	0.000E+00	-2.71E+02	-2.34E-01	0.00E+00	0.038
			-3.204E+01	0.000E+00	-8.512E-04	0.000E+00	7.869E-03	0.000E+00	-2.65E+02	1.07E-01	0.00E+00	0.037
		904	-3.135E+01	0.000E+00	-8.512E-04	0.000E+00	-1.558E-03	0.000E+00	-2.59E+02	-2.11E-02	0.00E+00	0.036

.....EIGENSOLUTION

VECTOR	FREQUENCY (RAD/SEC)	FREQUENCY (HZ)	PERIOD (SEC)	PARTICIPATION FACTORS X	Y	Z	CONVERGENCE RATIO	MODAL MASS X	Y	Z	CUM MASS X	Y	Z	NON-CONV
1	7.4170E+00	1.1805E+00	8.4713E-01	1.8966E-03	-6.3011E-03	1.3741E+00	1.2916E-16	0	0	92	0	0	92	
2	9.0772E+00	1.4447E+00	6.9219E-01	-1.3957E+00	9.2254E-02	2.1690E-03	0.0000E+00	95	0	0	95	0	92	
3	1.5436E+01	2.4567E+00	4.0704E-01	-1.0944E-01	-1.1827E+00	-5.0496E-03	0.0000E+00	0	68	0	96	69	92	
4	1.6029E+01	2.5511E+00	3.9199E-01	1.0263E-03	-3.9111E-03	-2.2239E-02	0.0000E+00	0	0	0	96	69	92	
5	1.7070E+01	2.7168E+00	3.6808E-01	-1.8879E-04	-4.2114E-03	-5.7324E-02	0.0000E+00	0	0	0	96	69	93	
6	3.5757E+01	5.6909E+00	1.7572E-01	2.3013E-04	-4.4818E-03	-2.0257E-01	0.0000E+00	0	0	2	96	69	95	
7	4.2801E+01	6.8119E+00	1.4680E-01	-5.3064E-03	-5.0162E-04	5.0120E-04	0.0000E+00	0	0	0	96	69	95	
8	4.3031E+01	6.8487E+00	1.4601E-01	3.3004E-03	3.1454E-03	-3.7056E-03	0.0000E+00	0	0	0	96	69	95	
9	4.3382E+01	6.9044E+00	1.4483E-01	7.5077E-04	5.8033E-05	-2.0866E-04	0.0000E+00	0	0	0	96	69	95	
10	4.3408E+01	6.9087E+00	1.4475E-01	-2.1165E-05	-5.8884E-05	7.4050E-05	0.0000E+00	0	0	0	96	69	95	
11	4.3426E+01	6.9114E+00	1.4469E-01	4.5263E-04	7.1094E-02	1.3932E-03	0.0000E+00	0	0	0	96	69	95	
12	4.5203E+01	7.1943E+00	1.3900E-01	8.2938E-03	8.9412E-04	-1.6893E-03	0.0000E+00	0	0	0	96	69	95	
13	4.8359E+01	7.6965E+00	1.2993E-01	-3.6044E-04	-1.0968E-02	2.1785E-01	0.0000E+00	0	0	2	96	69	97	
14	5.3203E+01	8.4675E+00	1.1810E-01	-2.6129E-02	-1.8907E-03	7.5712E-04	0.0000E+00	0	0	0	96	69	97	
15	5.3452E+01	8.5072E+00	1.1755E-01	1.1506E-03	-1.0042E-03	1.2442E-02	0.0000E+00	0	0	0	96	69	97	
16	6.1514E+01	9.7902E+00	1.0214E-01	3.2647E-03	2.2100E-01	8.0279E-03	0.0000E+00	0	2	0	96	71	97	
17	6.5958E+01	1.0498E+01	9.5261E-02	4.4605E-03	-1.5824E-02	-4.5687E-04	0.0000E+00	0	0	0	96	71	97	
18	6.9618E+01	1.1080E+01	9.0253E-02	-1.7194E-03	-5.0236E-03	7.3359E-05	0.0000E+00	0	0	0	96	71	97	
19	6.9633E+01	1.1082E+01	9.0233E-02	1.7370E-03	-9.1903E-02	8.1100E-04	0.0000E+00	0	0	0	96	72	97	

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WINZLER & KELLY
CONSULTING ENGINEERS

417 Montgomery St., Suite 600
San Francisco, CA 94104-1115
(415) 283-4970

By L. Lewis Date 9/09 Client Port of Portland Sheet No. D1 of 68

Subject T4 Elevated Rack Job No. 1086409002

D Seismic Analysis

WINZLER & KELLY
CONSULTING ENGINEERS
417 Montgomery St., Suite 600
San Francisco, CA 94104-1115
(415) 283-4970

By L. Lewis Date 9/09 Client Port of Portland Sheet No. D2 of 68

Subject T4 Elevated Deck Job No. 1086409002

Seismic

The Seismic Analysis Response Spectrum was modified for allowable stress design i $\frac{R}{I} \times \rho$

modifier $= .7 \times \frac{1.3}{2} = 0.45$

Analysis Results Shear x = 16.6 k
Shear z = −16.1 k

$C_s = .59 \times .45 = .266$ Generated Dead Load = 65.5 k

$.266 \times 65.5 = 17.42$ $16.1 < 17.42 \times .85$ ok

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Elevated Rack Seismic Analysis
$(1+0.14S_D)D + .7\rho Q_E$


```
AHALF
AHEAD  POP T4 Elevated Pipe Rack
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                 -----------> X-DIR Centerline Bridge
AHEAD                |
AHEAD                |
AHEAD                |
AHEAD                |
AHEAD                V
AHEAD              Z-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________
* LOADS DEFINITION
*_____________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)d
*
BWATR   -Y    -100.0     0.064        1.       32.2        1.
*
*_____________________________________________________
* NODES DEFINITION
*_____________________________________________________
*  Bottom Truss Nodes
CNODE   10    -39.00     -2.00     -3.75
CNODE   11    -32.50     -2.00     -3.75
CNODE   12    -26.00     -2.00     -3.75
CNODE   13    -19.50     -2.00     -3.75
CNODE   14    -13.00     -2.00     -3.75
CNODE   15     -6.50     -2.00     -3.75
CNODE   16      0.00     -2.00     -3.75
CNODE   17      6.50     -2.00     -3.75
CNODE   18     13.00     -2.00     -3.75
CNODE   19     19.50     -2.00     -3.75
CNODE   20     26.00     -2.00     -3.75
CNODE   21     32.50     -2.00     -3.75
CNODE   22     39.00     -2.00     -3.75
CNODE   30    -39.00     -2.00      3.75
CNODE   31    -32.50     -2.00      3.75
CNODE   32    -26.00     -2.00      3.75
CNODE   33    -19.50     -2.00      3.75
CNODE   34    -13.00     -2.00      3.75
CNODE   35     -6.50     -2.00      3.75
CNODE   36      0.00     -2.00      3.75
CNODE   37      6.50     -2.00      3.75
CNODE   38     13.00     -2.00      3.75
CNODE   39     19.50     -2.00      3.75
CNODE   40     26.00     -2.00      3.75
CNODE   41     32.50     -2.00      3.75
CNODE   42     39.00     -2.00      3.75
CNODE   50    -39.00      3.00     -3.75
CNODE   51    -32.50      3.00     -3.75
CNODE   52    -26.00      3.00     -3.75
CNODE   53    -19.50      3.00     -3.75
CNODE   54    -13.00      3.00     -3.75
CNODE   55     -6.50      3.00     -3.75
CNODE   56      0.00      3.00     -3.75
CNODE   57      6.50      3.00     -3.75
CNODE   58     13.00      3.00     -3.75
CNODE   59     19.50      3.00     -3.75
CNODE   60     26.00      3.00     -3.75
CNODE   61     32.50      3.00     -3.75
CNODE   62     39.00      3.00     -3.75
CNODE   70    -39.00      3.00      3.75
CNODE   71    -32.50      3.00      3.75
CNODE   72    -26.00      3.00      3.75
CNODE   73    -19.50      3.00      3.75
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CNODE   74    -13.00      3.00      3.75
CNODE   75     -6.50      3.00      3.75
CNODE   76      0.00      3.00      3.75
CNODE   77      6.50      3.00      3.75
CNODE   78     13.00      3.00      3.75
CNODE   79     19.50      3.00      3.75
CNODE   80     26.00      3.00      3.75
CNODE   81     32.50      3.00      3.75
CNODE   82     39.00      3.00      3.75
CNODE   90    -39.00      3.00      1.25
CNODE   91    -19.50      3.00      1.25
CNODE   92      0.00      3.00      1.25
CNODE   93     19.50      3.00      1.25
CNODE   94     39.00      3.00      1.25
CNODE   95    -39.00      3.00     -1.25
CNODE   96    -19.50      3.00     -1.25
CNODE   97      0.00      3.00     -1.25
CNODE   98     19.50      3.00     -1.25
CNODE   99     39.00      3.00     -1.25
CNODE  100    -39.00     -2.00     -1.25
CNODE  101    -19.50     -2.00     -1.25
CNODE  102      0.00     -2.00     -1.25
CNODE  103     19.50     -2.00     -1.25
CNODE  104     39.00     -2.00     -1.25
CNODE  105    -39.00     -2.00      1.25
CNODE  106    -19.50     -2.00      1.25
CNODE  107      0.00     -2.00      1.25
CNODE  108     19.50     -2.00      1.25
CNODE  109     39.00     -2.00      1.25
CNODE  900    -39.00     -3.25     -1.00
CNODE  901    -39.00     -3.25      0.00
CNODE  902    -39.00     -3.25      1.00
CNODE  903     39.00     -3.25     -1.00
CNODE  904     39.00     -3.25      0.00
CNODE  905     39.00     -3.25      1.00
CNODE  908    -39.00     -3.25     -3.75
CNODE  909    -39.00     -3.25      3.75
CNODE  910     39.00     -3.25     -3.75
CNODE  911     39.00     -3.25      3.75
CNODE 9908    -39.00     -2.50     -3.75
CNODE 9909    -39.00     -2.50      3.75
CNODE 9910     39.00     -2.50     -3.75
CNODE 9911     39.00     -2.50      3.75
CNODE  906    -39.00    -25.40      0.00
CNODE  907     39.00    -25.40      0.00
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX   906    2    2    2    2    2    2
DFIX   907    2    2    2    2    2    2
*
*_____________________________________________
* MATERIAL PROPERTIES
*_____________________________________________
EBEAM BRIDGE
* MATERIAL          E    POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.      0.30     0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.      0.30     28.10    7200.0
*
* END SUPPORT BEAMS
* Material Density increased by factor
EBMAT    3  4176000.      0.30     15.70    7200.0
*_____________________________________________
* MEMBER PROPERTIES
*_____________________________________________
*                 Ax        Ay        Az        Ix        Iy        Iz   dy   dz
* W 6x15 section (strong axis = y axis)
EBSEC    1    0.0307     0.680     0.340    0.0001    0.0014    0.0004 0.25 0.25
*
* WT4x6.5 section (strong axis = z axis)
EBSEC    2     0.013     0.520     0.520    0.0001    .00007    .00014 0.25 0.17
*
* W6x15 section (strong axis = z axis)
EBSEC    3    0.0307     0.340     0.680    0.0001    0.0004    0.0014 0.25 0.25
*
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* 12x6x.25 section (strong axis = z axis)
EBSEC    4      0.059      0.700      0.350     0.0080     0.0027     0.0078 0.50 0.25
*
* Stiff Section in Column
EBSEC    5      0.035      1.000      1.000     0.3200     0.3200     0.3200
*
* 30"x.375 wall
EBSEC    6      0.121      0.500      0.500     0.9000     0.0923     0.1842 1.25 1.25
*
* W6x12 section (strong axis = z axis)
EBSEC    7      0.025      0.420      0.560     0.0001     0.0001     0.0011 0.25 0.17
*
* WT4x6.5 section (strong axis = y axis)
EBSEC    8      0.013      0.520      0.520     0.0001     .00014     .000070 0.17 0.25
*
*
* Uniform Member Loads
*
* Operational Loading #1
*EBFGG   45 0.50  0.0                          -273.000
*
* MEMBER DEFINITIONS
*
*
EBMEM   10   10   50        1   1   0   000000   000000
EBMEM   11   11   51        1   2   0   000011   000011
EBMEM   12   12   52        1   2   0   000011   000011
EBMEM   13   13   53        1   2   0   000011   000011
EBMEM   14   14   54        1   2   0   000011   000011
EBMEM   15   15   55        1   2   0   000011   000011
EBMEM   16   16   56        1   2   0   000011   000011
EBMEM   17   17   57        1   2   0   000011   000011
EBMEM   18   18   58        1   2   0   000011   000011
EBMEM   19   19   59        1   2   0   000011   000011
EBMEM   20   20   60        1   2   0   000011   000011
EBMEM   21   21   61        1   2   0   000011   000011
EBMEM   22   22   62        1   1   0   000000   000000
EBMEM   30   30   70        1   1   0   000000   000000
EBMEM   31   31   71        1   2   0   000011   000011
EBMEM   32   32   72        1   2   0   000011   000011
EBMEM   33   33   73        1   2   0   000011   000011
EBMEM   34   34   74        1   2   0   000011   000011
EBMEM   35   35   75        1   2   0   000011   000011
EBMEM   36   36   76        1   2   0   000011   000011
EBMEM   37   37   77        1   2   0   000011   000011
EBMEM   38   38   78        1   2   0   000011   000011
EBMEM   39   39   79        1   2   0   000011   000011
EBMEM   40   40   80        1   2   0   000011   000011
EBMEM   41   41   81        1   2   0   000011   000011
EBMEM   42   42   82        1   1   0   000000   000000
EBMEM   50   10   51        1   2   0   000011   000011
EBMEM   51   12   51        1   2   0   000011   000011
EBMEM   52   12   53        1   2   0   000011   000011
EBMEM   53   14   53        1   2   0   000011   000011
EBMEM   54   14   55        1   2   0   000011   000011
EBMEM   55   16   55        1   2   0   000011   000011
EBMEM   56   16   57        1   2   0   000011   000011
EBMEM   57   18   57        1   2   0   000011   000011
EBMEM   58   18   59        1   2   0   000011   000011
EBMEM   59   20   59        1   2   0   000011   000011
EBMEM   60   20   61        1   2   0   000011   000011
EBMEM   61   22   61        1   2   0   000011   000011
EBMEM   70   30   71        1   2   0   000011   000011
EBMEM   71   32   71        1   2   0   000011   000011
EBMEM   72   32   73        1   2   0   000011   000011
EBMEM   73   34   73        1   2   0   000011   000011
EBMEM   74   34   75        1   2   0   000011   000011
EBMEM   75   36   75        1   2   0   000011   000011
EBMEM   76   36   77        1   2   0   000011   000011
EBMEM   77   38   77        1   2   0   000011   000011
EBMEM   78   38   79        1   2   0   000011   000011
EBMEM   79   40   79        1   2   0   000011   000011
EBMEM   80   40   81        1   2   0   000011   000011
EBMEM   81   42   81        1   2   0   000011   000011
EBMEM  100   30   11        1   8   0   000011   000011
EBMEM  101   32   11        1   8   0   000011   000011
EBMEM  102   32   13        1   8   0   000011   000011
EBMEM  103   34   13        1   8   0   000011   000011
EBMEM  104   34   15        1   8   0   000011   000011
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EBMEM	105	36	15	1	8	0	000011	000011
EBMEM	106	36	17	1	8	0	000011	000011
EBMEM	107	38	17	1	8	0	000011	000011
EBMEM	108	38	19	1	8	0	000011	000011
EBMEM	109	40	19	1	8	0	000011	000011
EBMEM	110	40	21	1	8	0	000011	000011
EBMEM	111	42	21	1	8	0	000011	000011
EBMEM	120	70	51	1	8	0	000011	000011
EBMEM	121	72	51	1	8	0	000011	000011
EBMEM	122	72	53	1	8	0	000011	000011
EBMEM	123	74	53	1	8	0	000011	000011
EBMEM	124	74	55	1	8	0	000011	000011
EBMEM	125	76	55	1	8	0	000011	000011
EBMEM	126	76	57	1	8	0	000011	000011
EBMEM	127	78	57	1	8	0	000011	000011
EBMEM	128	78	59	1	8	0	000011	000011
EBMEM	129	80	59	1	8	0	000011	000011
EBMEM	130	80	61	1	8	0	000011	000011
EBMEM	131	82	61	1	8	0	000011	000011
EBMEM	140	31	11	1	8	0	000011	000011
EBMEM	141	32	12	1	8	0	000011	000011
EBMEM	142	34	14	1	8	0	000011	000011
EBMEM	143	35	15	1	8	0	000011	000011
EBMEM	144	37	17	1	8	0	000011	000011
EBMEM	145	38	18	1	8	0	000011	000011
EBMEM	146	40	20	1	8	0	000011	000011
EBMEM	147	41	21	1	8	0	000011	000011
EBMEM	150	71	51	1	8	0	000011	000011
EBMEM	151	72	52	1	8	0	000011	000011
EBMEM	152	74	54	1	8	0	000011	000011
EBMEM	153	75	55	1	8	0	000011	000011
EBMEM	154	77	57	1	8	0	000011	000011
EBMEM	155	78	58	1	8	0	000011	000011
EBMEM	156	80	60	1	8	0	000011	000011
EBMEM	157	81	61	1	8	0	000011	000011
EBMEM	160	30	105	3	3	0	000000	000000
EBMEM	161	105	100	3	3	0	000000	000000
EBMEM	162	100	10	3	3	0	000000	000000
EBMEM	163	33	106	2	3	0	000011	000000
EBMEM	164	106	101	2	3	0	000000	000000
EBMEM	165	101	13	2	3	0	000000	000011
EBMEM	166	36	107	2	3	0	000011	000000
EBMEM	167	107	102	2	3	0	000000	000000
EBMEM	168	102	16	2	3	0	000000	000011
EBMEM	169	39	108	2	3	0	000011	000000
EBMEM	170	108	103	2	3	0	000000	000000
EBMEM	171	103	19	2	3	0	000000	000011
EBMEM	172	42	109	3	3	0	000000	000000
EBMEM	173	109	104	3	3	0	000000	000000
EBMEM	174	104	22	3	3	0	000000	000000
EBMEM	180	70	90	3	3	0	000000	000000
EBMEM	181	90	95	3	3	0	000000	000000
EBMEM	182	95	50	3	3	0	000000	000000
EBMEM	183	73	91	2	3	0	000011	000000
EBMEM	184	91	96	2	3	0	000000	000000
EBMEM	185	96	53	2	3	0	000000	000011
EBMEM	186	76	92	2	3	0	000011	000000
EBMEM	187	92	97	2	3	0	000000	000000
EBMEM	188	97	56	2	3	0	000000	000011
EBMEM	189	79	93	2	3	0	000011	000000
EBMEM	190	93	98	2	3	0	000000	000000
EBMEM	191	98	59	2	3	0	000000	000011
EBMEM	192	82	94	3	3	0	000000	000000
EBMEM	193	94	99	3	3	0	000000	000000
EBMEM	194	99	62	3	3	0	000000	000000
EBMEM	200	10	11	1	7	0	000000	000000
EBMEM	201	11	12	1	7	0	000000	000000
EBMEM	202	12	13	1	7	0	000000	000000
EBMEM	203	13	14	1	7	0	000000	000000
EBMEM	204	14	15	1	7	0	000000	000000
EBMEM	205	15	16	1	7	0	000000	000000
EBMEM	206	16	17	1	7	0	000000	000000
EBMEM	207	17	18	1	7	0	000000	000000
EBMEM	208	18	19	1	7	0	000000	000000
EBMEM	209	19	20	1	7	0	000000	000000
EBMEM	210	20	21	1	7	0	000000	000000
EBMEM	211	21	22	1	7	0	000000	000000
EBMEM	300	30	31	1	7	0	000000	000000
EBMEM	301	31	32	1	7	0	000000	000000

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```
EBMEM  302   32   33        1    7    0    000000    000000
EBMEM  303   33   34        1    7    0    000000    000000
EBMEM  304   34   35        1    7    0    000000    000000
EBMEM  305   35   36        1    7    0    000000    000000
EBMEM  306   36   37        1    7    0    000000    000000
EBMEM  307   37   38        1    7    0    000000    000000
EBMEM  308   38   39        1    7    0    000000    000000
EBMEM  309   39   40        1    7    0    000000    000000
EBMEM  310   40   41        1    7    0    000000    000000
EBMEM  311   41   42        1    7    0    000000    000000
*
EBMEM  500   50   51        1    7    0    000000    000000
EBMEM  501   51   52        1    7    0    000000    000000
EBMEM  502   52   53        1    7    0    000000    000000
EBMEM  503   53   54        1    7    0    000000    000000
*
EBMEM  504   54   55        1    7    0    000000    000000
EBMEM  505   55   56        1    7    0    000000    000000
EBMEM  506   56   57        1    7    0    000000    000000
EBMEM  507   57   58        1    7    0    000000    000000
EBMEM  508   58   59        1    7    0    000000    000000
EBMEM  509   59   60        1    7    0    000000    000000
EBMEM  510   60   61        1    7    0    000000    000000
EBMEM  511   61   62        1    7    0    000000    000000
EBMEM  700   70   71        1    7    0    000000    000000
EBMEM  701   71   72        1    7    0    000000    000000
EBMEM  702   72   73        1    7    0    000000    000000
EBMEM  703   73   74        1    7    0    000000    000000
EBMEM  704   74   75        1    7    0    000000    000000
EBMEM  705   75   76        1    7    0    000000    000000
EBMEM  706   76   77        1    7    0    000000    000000
EBMEM  707   77   78        1    7    0    000000    000000
*
EBMEM  708   78   79        1    7    0    000000    000000
EBMEM  709   79   80        1    7    0    000000    000000
EBMEM  710   80   81        1    7    0    000000    000000
EBMEM  711   81   82        1    7    0    000000    000000
EBMEM  900  900  908        1    4    0    000000    000000
EBMEM  901  909  902        1    4    0    000000    000000
EBMEM  902  903  910        1    4    0    000000    000000
EBMEM  903  911  905        1    4    0    000000    000000
EBMEM  904  901  900        1    5    0    000000    000000
EBMEM  905  902  901        1    5    0    000000    000000
EBMEM  906  904  903        1    5    0    000000    000000
EBMEM  910  910 9910        1    4    0    000000    011111
EBMEM  911  911 9911        1    4    0    000000    010111
EBMEM  912 9910   22        1    4    0    000000    000000
EBMEM  913 9911   42        1    4    0    000000    000000
EBMEM  914  908 9908        1    4    0    000000    001111
EBMEM  915  909 9909        1    4    0    000000    000111
EBMEM  916 9908   10        1    4    0    000000    000000
EBMEM  917 9909   30        1    4    0    000000    000000
EBMEM  907  905  904        1    5    0    000000    000000
EBMEM  908  906  901        1    6    0    000000    000000
EBMEM  909  907  904        1    6    0    000000    000000
*
*FLOAD  101    2        0.000    -0.560    0.000    0.00    0.0    0.00
*FLOAD  102    2        0.000    -0.560
*FLOAD  103    2                 -0.560
*FLOAD  104    2                 -0.560
*FLOAD  105    2                 -0.560
*FLOAD  106    2                 -0.560
*FLOAD  107    2                 -0.560
*FLOAD  108    2                 -0.560
*FLOAD  109    2                 -0.560
*
FSUMM    0
*
*_____________________________________________________
* LOAD COMBINATION
*_____________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1        1.08
*FCASE    1    2        1.00
*FCASE    1   10        0.00
*FCASE    1   32        0.00
```

```
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*_____________________________________________________
* MASS DISTRIBUTION
*_____________________________________________________
* Upper Deck
*GMASS  101    0          0.018     0.018     0.018
*GMASS  102    0          0.018     0.018     0.018
*GMASS  103    0          0.018     0.018     0.018
*GMASS  104    0          0.018     0.018     0.018
*GMASS  105    0          0.018     0.018     0.018
*GMASS  106    0          0.018     0.018     0.018
*GMASS  107    0          0.018     0.018     0.018
*GMASS  108    0          0.018     0.018     0.018
*GMASS  109    0          0.018     0.018     0.018
*
GSUMM    0
*
GSCAL    0       1.0       1.0       1.0       1.0       1.0
*
*    ** RESPONSE SPECTRAL CURVE **
*    API C2.3.6c
*    Soils profile Type B, Zone 4, G=0.25
*
GCURV    1     0.010    0.2500                32.17
GCURV          0.100    0.4000
GCURV          0.210    0.5900
GCURV          0.400    0.5900
GCURV          0.600    0.5900
GCURV          0.800    0.5900
GCURV          1.030    0.5900
GCURV          1.200    0.5100
GCURV          1.400    0.4400
GCURV          1.600    0.3800
GCURV          2.000    0.3100
GCURV          4.000    0.1500
*
GRESP    1 +CQC         1 0.45                      0.05
GRESP    1 -CQC         1 0.45                      0.05
GRESP    1 +CQC                               1 0.45 0.05
GRESP    1 -CQC                               1 0.45 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*      8700-8706
*#END
*
*_____________________________________________________
* ANALYSIS REQUEST
*_____________________________________________________
* Linear Static Analysis
ZSTAT    1    3    0
*
* Eigensolution (40 modes)
ZEIGN   40    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP    3    3    0             35    0    0
*
** Non-linear static pushover analysis
*ZPUSH    2    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                 1.0
**
*ZPUSH    5    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                           1.0
*
**
*ZSNAP    0    2    0              2
*
*_____________________________________________________
* PLOT REQUEST
```

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```
*
*ZPLOT    1    1    0    0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                0.00      0.10      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' PRODUCTION STRUCTURE
*                1.00      1.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      PAGE
*      MODE              1
*      PAGE
*      MODE              2
*      PAGE
*      MODE              3
*      PAGE
*      MODE              4
*      PAGE
*      MODE              5
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' DECK STRUCTURE
*                0.00      0.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
***
ZPLOT   -1    1    1    0    0             POP T4 ELEVATED PIPE RACK
                0.80     1.000      1.00       0.00      1.00      0.00
                1.00      1.00      1.00
      UNDF
      END
***
```

NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	ANGLE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
906	1	5.6786E-12	-3.5358E+01	-9.1927E-04	-3.54E+01	9.19E-04	0.00	-1.8679E-02	7.1703E-02	-1.3009E-10
907	1	0.0000E+00	-3.5358E+01	9.1927E-04	-3.54E+01	9.19E-04	0.00	1.8679E-02	0.0000E+00	0.0000E+00
TOTAL	1	5.6786E-12	-7.0716E+01	-9.4291E-13	-7.07E+01	5.76E-12	-80.57	5.5591E-12	7.1703E-02	-1.3009E-10

EIGN RES = 1 POP T4 Elevated Pipe Rack [02-14- 9 22:25:23]EDP-PAGE = 27

.....EIGENSOLUTION

VECTOR	FREQUENCY (RAD/SEC)	FREQUENCY (HZ)	PERIOD (SEC)	PARTICIPATION FACTORS X	PARTICIPATION FACTORS Y	PARTICIPATION FACTORS Z	CONVERGENCE RATIO	MODAL MASS X	MODAL MASS Y	MODAL MASS Z	CUM MASS X	CUM MASS Y	CUM MASS Z	NON-CONV
1	7.4170E+00	1.1805E+00	8.4713E-01	1.8966E-03	-6.3011E-03	1.3741E+00	1.2916E-16	0	0	92	0	0	92	
2	9.0772E+00	1.4447E+00	6.9219E-01	-1.3957E+00	9.2254E-02	2.1690E-03	0.0000E+00	95	0	0	95	0	92	
3	1.5436E+01	2.4567E+00	4.0704E-01	-1.0944E-01	-1.1827E+00	-5.0496E-03	0.0000E+00	0	68	0	96	69	92	
4	1.6029E+01	2.5511E+00	3.9199E-01	1.0263E-03	-3.9111E-03	-2.2239E-02	0.0000E+00	0	0	0	96	69	92	
5	1.7070E+01	2.7168E+00	3.6808E-01	-1.8879E-04	-4.2114E-03	-5.7324E-02	0.0000E+00	0	0	0	96	69	93	
6	3.5757E+01	5.6909E+00	1.7572E-01	2.3013E-04	-4.4818E-03	-2.0257E-01	0.0000E+00	0	0	2	96	69	95	
7	4.2801E+01	6.8119E+00	1.4680E-01	-5.3064E-03	-5.0162E-04	5.0120E-04	0.0000E+00	0	0	0	96	69	95	
8	4.3031E+01	6.8487E+00	1.4601E-01	3.3004E-03	3.1454E-03	-3.7056E-03	0.0000E+00	0	0	0	96	69	95	
9	4.3382E+01	6.9044E+00	1.4483E-01	7.5077E-04	5.8033E-05	-2.0866E-04	0.0000E+00	0	0	0	96	69	95	
10	4.3408E+01	6.9087E+00	1.4475E-01	-2.1165E-05	-5.8884E-05	7.4050E-05	0.0000E+00	0	0	0	96	69	95	
11	4.3426E+01	6.9114E+00	1.4469E-01	4.5263E-04	7.1094E-02	1.3932E-03	0.0000E+00	0	0	0	96	69	95	
12	4.5203E+01	7.1943E+00	1.3900E-01	8.2938E-03	8.9412E-04	-1.6893E-03	0.0000E+00	0	0	0	96	69	95	
13	4.8359E+01	7.6965E+00	1.2993E-01	-3.6044E-04	-1.0968E-02	2.1785E-01	0.0000E+00	0	0	2	96	69	97	
14	5.3203E+01	8.4675E+00	1.1810E-01	-2.6129E-02	-1.8907E-03	7.5712E-04	0.0000E+00	0	0	0	96	69	97	
15	5.3452E+01	8.5072E+00	1.1755E-01	1.1506E-03	-1.0042E-03	1.2442E-02	0.0000E+00	0	0	0	96	69	97	
16	6.1514E+01	9.7902E+00	1.0214E-01	3.2647E-03	2.2100E-01	8.0279E-03	0.0000E+00	0	2	0	96	71	97	
17	6.5958E+01	1.0498E+01	9.5261E-02	4.4605E-03	-1.5824E-02	-4.5687E-04	0.0000E+00	0	0	0	96	71	97	
18	6.9618E+01	1.1080E+01	9.0253E-02	-1.7194E-03	-5.0236E-03	7.3359E-05	0.0000E+00	0	0	0	96	71	97	
19	6.9633E+01	1.1082E+01	9.0233E-02	1.7370E-03	-9.1903E-02	8.1100E-04	0.0000E+00	0	0	0	96	72	97	
20	7.8515E+01	1.2496E+01	8.0026E-02	6.9581E-05	2.2148E-03	1.1841E-05	2.2561E-12	0	0	0	96	72	97	
21	7.8522E+01	1.2497E+01	8.0018E-02	-5.5826E-05	-5.6571E-07	-6.7559E-06	0.0000E+00	0	0	0	96	72	97	
22	7.8539E+01	1.2500E+01	8.0001E-02	7.4341E-05	8.7581E-03	1.7757E-04	0.0000E+00	0	0	0	96	72	97	
23	8.0294E+01	1.2779E+01	7.8252E-02	4.5576E-04	9.6477E-06	1.6794E-05	0.0000E+00	0	0	0	96	72	97	
24	8.3387E+01	1.3271E+01	7.5350E-02	3.2414E-03	-2.1295E-04	-1.5505E-03	0.0000E+00	0	0	0	96	72	97	
25	8.4005E+01	1.3370E+01	7.4795E-02	-1.6932E-01	-8.3874E-09	-3.6003E-10	0.0000E+00	1	0	0	97	72	97	
26	8.4452E+01	1.3441E+01	7.4400E-02	-1.8354E-02	-8.6313E-06	-2.7298E-04	0.0000E+00	0	0	0	97	72	97	
27	9.1016E+01	1.4486E+01	6.9034E-02	1.8503E-05	-1.6125E-02	-8.8244E-03	0.0000E+00	0	0	0	97	72	97	
28	1.1084E+02	1.7641E+01	5.6685E-02	8.3218E-04	-9.6872E-03	5.1661E-03	0.0000E+00	0	0	0	97	72	97	
29	1.1495E+02	1.8295E+01	5.4659E-02	-9.3063E-04	-1.0590E-03	-2.2270E-03	1.0115E-12	0	0	0	97	72	97	
30	1.1509E+02	1.8317E+01	5.4593E-02	-2.2661E-05	1.1318E-01	4.3491E-02	2.1644E-12	0	0	0	97	72	97	
31	1.1553E+02	1.8387E+01	5.4387E-02	-1.0351E-03	6.4122E-01	-6.4553E-03	1.3230E-11	0	20	0	97	93	97	
32	1.1902E+02	1.8942E+01	5.2793E-02	3.5795E-04	-3.8188E-04	8.8939E-04	2.2555E-12	0	0	0	97	93	97	
33	1.2205E+02	1.9425E+01	5.1480E-02	2.3154E-03	-1.4040E-01	-1.9545E-03	2.1868E-11	0	0	0	97	94	97	
34	1.3461E+02	2.1423E+01	4.6678E-02	-1.9368E-06	9.4666E-03	3.8233E-02	0.0000E+00	0	0	0	97	94	97	
35	1.3932E+02	2.2173E+01	4.5099E-02	3.0177E-03	3.7111E-04	-5.2008E-05	1.8559E-10	0	0	0	97	94	97	
36	1.4209E+02	2.2614E+01	4.4220E-02	-4.6802E-04	8.9652E-05	-2.3539E-05	2.8346E-11	0	0	0	97	94	97	
37	1.4212E+02	2.2619E+01	4.4210E-02	-3.7749E-05	2.3012E-02	-6.1993E-03	5.9699E-11	0	0	0	97	94	97	
38	1.6416E+02	2.6126E+01	3.8276E-02	-9.5290E-05	1.0101E-05	-5.6597E-05	4.6230E-07	0	0	0	97	94	97	
39	1.6457E+02	2.6192E+01	3.8179E-02	9.6858E-05	-1.4531E-04	3.5087E-05	7.4179E-07	0	0	0	97	94	97	

40 1.6465E+02 2.6205E+01 3.8160E-02 9.3320E-05 -5.4332E-06 -6.5283E-05 2.7470E-07 0 0 0 97 94 97

WARNING- NUMBER OF EIGENVALUES USED FOR ZRESP(35) IS LESS THAN THE NUMBER OF EIGENVALUES (40)

SEISMIC = 1 POP T4 Elevated Pipe Rack [02-14- 9 22:25:23]EDP-PAGE = 28

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 1

NODE NUMBER	TRANSLATIONS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ	NODE TYPE
10	-9.5207E-02	-6.4411E-03	1.1049E-03	-6.44E-03	9.52E-02	-89.34	3.1483E-04	-7.8426E-04	-8.2488E-03	
11	-9.4722E-02	-5.4259E-02	1.7832E-03	-5.43E-02	9.47E-02	-88.92	1.2043E-05	-1.5955E-04	-6.9192E-03	
12	-9.4236E-02	-9.7978E-02	1.1077E-03	-9.80E-02	9.42E-02	-89.33	2.6569E-04	-2.4332E-04	-6.4842E-03	
13	-9.1810E-02	-1.3631E-01	3.4481E-03	-1.36E-01	9.19E-02	-87.85	5.1065E-04	3.6935E-05	-4.9872E-03	
14	-8.9330E-02	-1.6232E-01	1.0993E-03	-1.62E-01	8.93E-02	-89.29	5.8517E-04	-8.8496E-05	-3.2593E-03	
15	-8.6109E-02	-1.7943E-01	4.0960E-03	-1.79E-01	8.62E-02	-87.28	6.6874E-04	1.3206E-05	-1.9010E-03	
16	-8.2885E-02	-1.8571E-01	1.0648E-03	-1.86E-01	8.29E-02	-89.26	6.9258E-04	-1.4765E-05	-7.1818E-05	
17	-7.9554E-02	-1.7861E-01	4.1876E-03	-1.79E-01	7.97E-02	-86.99	7.1379E-04	-1.8307E-05	1.6727E-03	
18	-7.6219E-02	-1.6095E-01	1.0578E-03	-1.61E-01	7.62E-02	-89.20	6.8548E-04	6.1717E-05	2.8459E-03	
19	-7.3516E-02	-1.3450E-01	3.6383E-03	-1.35E-01	7.36E-02	-87.17	6.6178E-04	-7.4417E-05	4.3886E-03	
20	-7.0755E-02	-9.6396E-02	1.0820E-03	-9.64E-02	7.08E-02	-89.12	4.3359E-04	1.2506E-04	5.6317E-03	
21	-6.9824E-02	-5.2923E-02	1.9896E-03	-5.29E-02	6.99E-02	-88.37	2.4016E-04	-2.4718E-04	6.2287E-03	
22	-6.8889E-02	-6.6287E-03	1.0426E-03	-6.63E-03	6.89E-02	-89.13	3.0470E-04	-7.6528E-04	6.0116E-03	
30	-9.5201E-02	-6.4321E-03	1.1481E-03	-6.43E-03	9.52E-02	-89.31	-3.4518E-04	-8.1214E-04	-8.2436E-03	
31	-9.4721E-02	-5.4165E-02	1.7742E-03	-5.42E-02	9.47E-02	-88.93	-4.7934E-04	-1.6045E-04	-6.9160E-03	
32	-9.4239E-02	-9.7901E-02	1.0971E-03	-9.79E-02	9.42E-02	-89.33	-6.1488E-04	-2.4489E-04	-6.4807E-03	
33	-9.1818E-02	-1.3619E-01	3.4437E-03	-1.36E-01	9.19E-02	-87.85	-7.3567E-04	5.2055E-05	-4.9857E-03	
34	-8.9343E-02	-1.6222E-01	1.0846E-03	-1.62E-01	8.93E-02	-89.30	-8.5667E-04	-8.9681E-05	-3.2582E-03	
35	-8.6125E-02	-1.7928E-01	4.0825E-03	-1.79E-01	8.62E-02	-87.29	-9.3003E-04	1.4733E-05	-1.9005E-03	
36	-8.2906E-02	-1.8559E-01	1.0580E-03	-1.86E-01	8.29E-02	-89.27	-1.0035E-03	-1.5205E-05	-7.3154E-05	
37	-7.9578E-02	-1.7845E-01	4.1734E-03	-1.78E-01	7.97E-02	-87.00	-9.2719E-04	-1.8271E-05	1.6708E-03	
38	-7.6248E-02	-1.6081E-01	1.0433E-03	-1.61E-01	7.63E-02	-89.22	-8.5196E-04	7.1926E-05	2.8424E-03	
39	-7.3548E-02	-1.3433E-01	3.6334E-03	-1.34E-01	7.36E-02	-87.17	-7.3422E-04	-6.5728E-05	4.3833E-03	
40	-7.0793E-02	-9.6253E-02	1.0741E-03	-9.63E-02	7.08E-02	-89.13	-6.2719E-04	1.6686E-04	5.6239E-03	
41	-6.9866E-02	-5.2747E-02	1.9801E-03	-5.27E-02	6.99E-02	-88.38	-4.7689E-04	-2.5550E-04	6.2226E-03	
42	-6.8936E-02	-6.4975E-03	1.0889E-03	-6.50E-03	6.89E-02	-89.10	-3.5871E-04	-7.5635E-04	5.9990E-03	
50	-6.8664E-02	-6.5293E-03	1.0719E-03	-6.53E-03	6.87E-02	-89.11	3.1527E-04	-7.7884E-04	-6.8842E-03	
51	-6.8630E-02	-5.4215E-02	9.7374E-04	-5.42E-02	6.86E-02	-89.19	1.7327E-04	-3.9596E-04	-7.2382E-03	
52	-7.0552E-02	-9.8015E-02	2.7107E-03	-9.80E-02	7.06E-02	-87.80	3.2619E-04	1.2682E-05	-6.3718E-03	
53	-7.2472E-02	-1.3600E-01	9.5102E-04	-1.36E-01	7.25E-02	-89.25	4.7894E-04	-1.6272E-04	-5.0066E-03	
54	-7.5663E-02	-1.6234E-01	3.8273E-03	-1.62E-01	7.58E-02	-87.10	5.5093E-04	3.9226E-05	-3.2818E-03	
55	-7.8852E-02	-1.7941E-01	9.3416E-04	-1.79E-01	7.89E-02	-89.32	6.2280E-04	-7.1486E-05	-1.9293E-03	
56	-8.2680E-02	-1.8604E-01	4.3304E-03	-1.86E-01	8.28E-02	-87.00	6.4437E-04	-5.6955E-06	-7.2173E-05	
57	-8.6453E-02	-1.7859E-01	8.8989E-04	-1.79E-01	8.65E-02	-89.41	6.6569E-04	6.0150E-05	1.6983E-03	
58	-8.9685E-02	-1.6097E-01	3.7667E-03	-1.61E-01	8.98E-02	-87.60	6.4188E-04	-4.8204E-05	2.8711E-03	
59	-9.2915E-02	-1.3419E-01	8.8645E-04	-1.34E-01	9.29E-02	-89.45	6.0614E-04	1.3970E-04	4.3903E-03	
60	-9.4861E-02	-9.6424E-02	2.6382E-03	-9.64E-02	9.49E-02	-88.41	4.1303E-04	-1.1821E-04	5.5951E-03	
61	-9.6806E-02	-5.2928E-02	8.9291E-04	-5.29E-02	9.68E-02	-89.47	2.0973E-04	1.2743E-05	6.2340E-03	
62	-9.6857E-02	-6.7172E-03	9.3736E-04	-6.72E-03	9.69E-02	-89.45	3.0248E-04	-8.0588E-04	5.9948E-03	
70	-6.8685E-02	-6.5196E-03	1.0264E-03	-6.52E-03	6.87E-02	-89.14	-3.4301E-04	-7.7468E-04	-6.8784E-03	
71	-6.8650E-02	-5.4126E-02	9.8234E-04	-5.41E-02	6.87E-02	-89.18	-5.6828E-04	-3.8769E-04	-7.2385E-03	
72	-7.0572E-02	-9.7944E-02	2.7183E-03	-9.79E-02	7.06E-02	-87.79	-6.8081E-04	1.9318E-05	-6.3683E-03	
73	-7.2490E-02	-1.3588E-01	9.5585E-04	-1.36E-01	7.25E-02	-89.24	-7.9612E-04	-1.5018E-04	-5.0052E-03	
74	-7.5680E-02	-1.6225E-01	3.8409E-03	-1.62E-01	7.58E-02	-87.09	-9.1434E-04	3.8084E-05	-3.2807E-03	
75	-7.8866E-02	-1.7927E-01	9.4965E-04	-1.79E-01	7.89E-02	-89.31	-9.9107E-04	-6.6747E-05	-1.9289E-03	
76	-8.2693E-02	-1.8592E-01	4.3373E-03	-1.86E-01	8.28E-02	-87.00	-1.0950E-03	-5.5750E-06	-7.3507E-05	

77	-8.6463E-02	-1.7843E-01	9.0535E-04	-1.78E-01	8.65E-02	-89.40	-9.8537E-04	5.4846E-05	1.6964E-03
78	-8.9693E-02	-1.6084E-01	3.7805E-03	-1.61E-01	8.98E-02	-87.59	-9.0301E-04	-4.4512E-05	2.8676E-03
79	-9.2921E-02	-1.3402E-01	8.9097E-04	-1.34E-01	9.29E-02	-89.45	-7.7114E-04	1.2453E-04	4.3851E-03
80	-9.4865E-02	-9.6286E-02	2.6477E-03	-9.63E-02	9.49E-02	-88.40	-6.3393E-04	-1.1792E-04	5.5871E-03
81	-9.6808E-02	-5.2758E-02	8.9300E-04	-5.28E-02	9.68E-02	-89.47	-5.4043E-04	-6.7971E-06	6.2283E-03
82	-9.6859E-02	-6.5868E-03	8.9415E-04	-6.59E-03	9.69E-02	-89.47	-3.5420E-04	-8.0101E-04	5.9832E-03
90	-7.0523E-02	-7.8386E-03	1.0415E-03	-7.84E-03	7.05E-02	-89.15	-3.5311E-04	-4.6714E-04	-6.8803E-03
91	-7.7086E-02	-1.4212E-01	9.5421E-04	-1.42E-01	7.71E-02	-89.29	-1.4012E-03	-1.0921E-03	-5.0057E-03
92	-8.7277E-02	-1.9220E-01	4.3350E-03	-1.92E-01	8.74E-02	-87.16	-1.4098E-03	-1.0897E-03	-7.3062E-05
93	-9.7494E-02	-1.4025E-01	8.8942E-04	-1.40E-01	9.75E-02	-89.48	-1.4032E-03	-1.0878E-03	4.3868E-03
94	-9.8681E-02	-7.9506E-03	9.0853E-04	-7.95E-03	9.87E-02	-89.47	-3.6086E-04	-4.5405E-04	5.9871E-03
95	-7.0501E-02	-7.8410E-03	1.0567E-03	-7.84E-03	7.05E-02	-89.14	3.3007E-04	-4.6976E-04	-6.8823E-03
96	-7.7080E-02	-1.4216E-01	9.5260E-04	-1.42E-01	7.71E-02	-89.29	1.2979E-03	-1.0966E-03	-5.0061E-03
97	-8.7273E-02	-1.9224E-01	4.3327E-03	-1.92E-01	8.74E-02	-87.16	1.2887E-03	-1.0925E-03	-7.2617E-05
98	-9.7492E-02	-1.4031E-01	8.8791E-04	-1.40E-01	9.75E-02	-89.48	1.3055E-03	-1.0886E-03	4.3886E-03
99	-9.8698E-02	-7.9898E-03	9.2294E-04	-7.99E-03	9.87E-02	-89.46	3.2205E-04	-4.5544E-04	5.9910E-03
100	-9.6995E-02	-7.7531E-03	1.1193E-03	-7.75E-03	9.70E-02	-89.34	3.3051E-04	-4.4079E-04	-8.2471E-03
101	-9.6353E-02	-1.4247E-01	3.4466E-03	-1.42E-01	9.64E-02	-87.95	1.2971E-03	-1.0806E-03	-4.9867E-03
102	-8.7490E-02	-1.9191E-01	1.0625E-03	-1.92E-01	8.75E-02	-89.30	1.2880E-03	-1.0959E-03	-7.2263E-05
103	-7.8162E-02	-1.4063E-01	3.6366E-03	-1.41E-01	7.82E-02	-87.34	1.3047E-03	-1.1064E-03	4.3868E-03
104	-7.0732E-02	-7.9060E-03	1.0580E-03	-7.91E-03	7.07E-02	-89.14	3.2332E-04	-4.8197E-04	6.0074E-03
105	-9.6972E-02	-7.7510E-03	1.1337E-03	-7.75E-03	9.70E-02	-89.33	-3.5325E-04	-4.2554E-04	-8.2453E-03
106	-9.6356E-02	-1.4243E-01	3.4451E-03	-1.42E-01	9.64E-02	-87.95	-1.4020E-03	-1.0757E-03	-4.9862E-03
107	-8.7497E-02	-1.9187E-01	1.0602E-03	-1.92E-01	8.75E-02	-89.31	-1.4105E-03	-1.0907E-03	-7.2708E-05
108	-7.8172E-02	-1.4057E-01	3.6350E-03	-1.41E-01	7.83E-02	-87.34	-1.4040E-03	-1.1014E-03	4.3851E-03
109	-7.0785E-02	-7.8674E-03	1.0734E-03	-7.87E-03	7.08E-02	-89.13	-3.6181E-04	-4.7903E-04	6.0032E-03
900	-8.6250E-02	-1.8726E-03	-1.6472E-04	-1.87E-03	8.63E-02	89.89	-5.2666E-05	-1.8165E-05	-5.6740E-03
901	-8.6093E-02	-1.5417E-03	-1.6472E-04	-1.54E-03	8.61E-02	89.89	-1.1570E-05	3.4606E-07	-5.6621E-03
902	-8.6250E-02	-1.8705E-03	-1.6482E-04	-1.87E-03	8.62E-02	89.89	2.9454E-05	-1.9637E-05	-5.6741E-03
903	-7.7283E-04	-1.9247E-03	-2.5793E-04	-1.92E-03	8.15E-04	71.54	-6.1644E-05	-2.5502E-08	-4.9898E-05
904	-7.7250E-04	-1.5727E-03	-2.5793E-04	-1.57E-03	8.14E-04	71.54	-1.9231E-05	-1.7834E-16	-4.9898E-05
905	-7.7283E-04	-1.8917E-03	-2.5804E-04	-1.89E-03	8.15E-04	71.54	2.3056E-05	-2.5502E-08	-4.9898E-05
908	-9.2052E-02	-6.3545E-03	-1.6472E-04	-6.35E-03	9.21E-02	89.90	-2.0336E-03	-2.7731E-03	-6.9906E-03
909	-9.2044E-02	-6.3456E-03	-1.6497E-04	-6.35E-03	9.20E-02	89.90	1.9616E-03	-2.7788E-03	-6.9958E-03
910	-7.7929E-04	-6.5402E-03	-2.5793E-04	-6.54E-03	8.21E-04	71.69	-2.0911E-03	-3.0947E-06	-4.9898E-05
911	-7.7929E-04	-6.4093E-03	-2.5823E-04	-6.41E-03	8.21E-04	71.67	1.9405E-03	-3.0947E-06	-4.9898E-05
9908	-9.7426E-02	-6.4065E-03	9.4725E-04	-6.41E-03	9.74E-02	-89.44	3.1483E-04	-7.8426E-04	-8.2802E-03
9909	-9.7417E-02	-6.3975E-03	1.3207E-03	-6.40E-03	9.74E-02	-89.22	-3.4533E-04	-8.1214E-04	-8.2751E-03
9910	-6.5870E-02	-6.5933E-03	8.9011E-04	-6.59E-03	6.59E-02	-89.23	3.0470E-04	-7.6528E-04	6.0116E-03
9911	-6.5923E-02	-6.4622E-03	1.2683E-03	-6.46E-03	6.59E-02	-88.90	-3.5889E-04	-7.5635E-04	5.9990E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 1

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	99	97	911	910	909	9908	907	907	76	909	40	61
DISP	-9.87E-02	-1.92E-01	-2.58E-04	-2.09E-03	-2.78E-03	-8.28E-03	0.00E+00	0.00E+00	4.34E-03	1.96E-03	1.67E-04	6.23E-03

SEISMIC = 2 POP T4 Elevated Pipe Rack [02-14- 9 22:25:23]EDP-PAGE = 29

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 2

NODE ----------TRANSLATIONS---------- ----------ROTATIONS----------

D12/68

NUMBER	X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	XX	YY	ZZ	NODE TYPE
10	-9.5207E-02	-6.4411E-03	1.1049E-03	-6.44E-03	9.52E-02	-89.34	3.1483E-04	-7.8426E-04	-8.2488E-03	
11	-9.4722E-02	-5.4259E-02	1.7832E-03	-5.43E-02	9.47E-02	-88.92	1.2043E-05	-1.5955E-04	-6.9192E-03	
12	-9.4236E-02	-9.7978E-02	1.1077E-03	-9.80E-02	9.42E-02	-89.33	2.6569E-04	-2.4332E-04	-6.4842E-03	
13	-9.1810E-02	-1.3631E-01	3.4481E-03	-1.36E-01	9.19E-02	-87.85	5.1065E-04	3.6935E-05	-4.9872E-03	
14	-8.9330E-02	-1.6232E-01	1.0993E-03	-1.62E-01	8.93E-02	-89.29	5.8517E-04	-8.8496E-05	-3.2593E-03	
15	-8.6109E-02	-1.7943E-01	4.0960E-03	-1.79E-01	8.62E-02	-87.28	6.6874E-04	1.3206E-05	-1.9010E-03	
16	-8.2885E-02	-1.8571E-01	1.0648E-03	-1.86E-01	8.29E-02	-89.26	6.9258E-04	-1.4765E-05	-7.1818E-05	
17	-7.9554E-02	-1.7861E-01	4.1876E-03	-1.79E-01	7.97E-02	-86.99	7.1379E-04	-1.8307E-05	1.6727E-03	
18	-7.6219E-02	-1.6095E-01	1.0578E-03	-1.61E-01	7.62E-02	-89.20	6.8548E-04	6.1717E-05	2.8459E-03	
19	-7.3516E-02	-1.3450E-01	3.6383E-03	-1.35E-01	7.36E-02	-87.17	6.6178E-04	-7.4417E-05	4.3886E-03	
20	-7.0755E-02	-9.6396E-02	1.0820E-03	-9.64E-02	7.08E-02	-89.12	4.3359E-04	1.2506E-04	5.6317E-03	
21	-6.9824E-02	-5.2923E-02	1.9896E-03	-5.29E-02	6.99E-02	-88.37	2.4016E-04	-2.4718E-04	6.2287E-03	
22	-6.8889E-02	-6.6287E-03	1.0426E-03	-6.63E-03	6.89E-02	-89.13	3.0470E-04	-7.6528E-04	6.0116E-03	
30	-9.5201E-02	-6.4321E-03	1.1481E-03	-6.43E-03	9.52E-02	-89.31	-3.4518E-04	-8.1214E-04	-8.2436E-03	
31	-9.4721E-02	-5.4165E-02	1.7742E-03	-5.42E-02	9.47E-02	-88.93	-4.7934E-04	-1.6045E-04	-6.9160E-03	
32	-9.4239E-02	-9.7901E-02	1.0971E-03	-9.79E-02	9.42E-02	-89.33	-6.1488E-04	-2.4489E-04	-6.4807E-03	
33	-9.1818E-02	-1.3619E-01	3.4437E-03	-1.36E-01	9.19E-02	-87.85	-7.3567E-04	5.2055E-05	-4.9857E-03	
34	-8.9343E-02	-1.6222E-01	1.0846E-03	-1.62E-01	8.93E-02	-89.30	-8.5667E-04	-8.9681E-05	-3.2582E-03	
35	-8.6125E-02	-1.7928E-01	4.0825E-03	-1.79E-01	8.62E-02	-87.29	-9.3003E-04	1.4733E-05	-1.9005E-03	
36	-8.2906E-02	-1.8559E-01	1.0580E-03	-1.86E-01	8.29E-02	-89.27	-1.0035E-03	-1.5205E-05	-7.3154E-05	
37	-7.9578E-02	-1.7845E-01	4.1734E-03	-1.78E-01	7.97E-02	-87.00	-9.2719E-04	-1.8271E-05	1.6708E-03	
38	-7.6248E-02	-1.6081E-01	1.0433E-03	-1.61E-01	7.63E-02	-89.22	-8.5196E-04	7.1926E-05	2.8424E-03	
39	-7.3548E-02	-1.3433E-01	3.6334E-03	-1.34E-01	7.36E-02	-87.17	-7.3422E-04	-6.5728E-05	4.3833E-03	
40	-7.0793E-02	-9.6253E-02	1.0741E-03	-9.63E-02	7.08E-02	-89.13	-6.2719E-04	1.6686E-04	5.6239E-03	
41	-6.9866E-02	-5.2747E-02	1.9801E-03	-5.27E-02	6.99E-02	-88.38	-4.7689E-04	-2.5550E-04	6.2226E-03	
42	-6.8936E-02	-6.4975E-03	1.0889E-03	-6.50E-03	6.89E-02	-89.10	-3.5871E-04	-7.5635E-04	5.9990E-03	
50	-6.8664E-02	-6.5293E-03	1.0719E-03	-6.53E-03	6.87E-02	-89.11	3.1527E-04	-7.7884E-04	-6.8842E-03	
51	-6.8630E-02	-5.4215E-02	9.7374E-04	-5.42E-02	6.86E-02	-89.19	1.7327E-04	-3.9596E-04	-7.2382E-03	
52	-7.0552E-02	-9.8015E-02	2.7107E-03	-9.80E-02	7.06E-02	-87.80	3.2619E-04	1.2682E-05	-6.3718E-03	
53	-7.2472E-02	-1.3600E-01	9.5102E-04	-1.36E-01	7.25E-02	-89.25	4.7894E-04	-1.6272E-04	-5.0066E-03	
54	-7.5663E-02	-1.6234E-01	3.8273E-03	-1.62E-01	7.58E-02	-87.10	5.5093E-04	3.9226E-05	-3.2818E-03	
55	-7.8852E-02	-1.7941E-01	9.3416E-04	-1.79E-01	7.89E-02	-89.32	6.2280E-04	-7.1486E-05	-1.9293E-03	
56	-8.2680E-02	-1.8604E-01	4.3304E-03	-1.86E-01	8.28E-02	-87.00	6.4437E-04	-5.6955E-06	-7.2173E-05	
57	-8.6453E-02	-1.7859E-01	8.8989E-04	-1.79E-01	8.65E-02	-89.41	6.6569E-04	6.0150E-05	1.6983E-03	
58	-8.9685E-02	-1.6097E-01	3.7667E-03	-1.61E-01	8.98E-02	-87.60	6.4188E-04	-4.8204E-05	2.8711E-03	
59	-9.2915E-02	-1.3419E-01	8.8645E-04	-1.34E-01	9.29E-02	-89.45	6.0614E-04	1.3970E-04	4.3903E-03	
60	-9.4861E-02	-9.6424E-02	2.6382E-03	-9.64E-02	9.49E-02	-88.41	4.1303E-04	-1.1821E-04	5.5951E-03	
61	-9.6806E-02	-5.2928E-02	8.9291E-04	-5.29E-02	9.68E-02	-89.47	2.0973E-04	1.2743E-05	6.2340E-03	
62	-9.6857E-02	-6.7172E-03	9.3736E-04	-6.72E-03	9.69E-02	-89.45	3.0248E-04	-8.0588E-04	5.9948E-03	
70	-6.8685E-02	-6.5196E-03	1.0264E-03	-6.52E-03	6.87E-02	-89.14	-3.4301E-04	-7.7468E-04	-6.8784E-03	
71	-6.8650E-02	-5.4126E-02	9.8234E-04	-5.41E-02	6.87E-02	-89.18	-5.6828E-04	-3.8769E-04	-7.2385E-03	
72	-7.0572E-02	-9.7944E-02	2.7183E-03	-9.79E-02	7.06E-02	-87.79	-6.8081E-04	1.9318E-05	-6.3683E-03	
73	-7.2490E-02	-1.3588E-01	9.5585E-04	-1.36E-01	7.25E-02	-89.24	-7.9612E-04	-1.5018E-04	-5.0052E-03	
74	-7.5680E-02	-1.6225E-01	3.8409E-03	-1.62E-01	7.58E-02	-87.09	-9.1434E-04	3.8084E-05	-3.2807E-03	
75	-7.8866E-02	-1.7927E-01	9.4965E-04	-1.79E-01	7.89E-02	-89.31	-9.9107E-04	-6.6747E-05	-1.9289E-03	
76	-8.2693E-02	-1.8592E-01	4.3373E-03	-1.86E-01	8.28E-02	-87.00	-1.0950E-03	-5.5750E-06	-7.3507E-05	
77	-8.6463E-02	-1.7843E-01	9.0535E-04	-1.78E-01	8.65E-02	-89.40	-9.8537E-04	5.4846E-05	1.6964E-03	
78	-8.9693E-02	-1.6084E-01	3.7805E-03	-1.61E-01	8.98E-02	-87.59	-9.0301E-04	-4.4512E-05	2.8676E-03	
79	-9.2921E-02	-1.3402E-01	8.9097E-04	-1.34E-01	9.29E-02	-89.45	-7.7114E-04	1.2453E-04	4.3851E-03	
80	-9.4865E-02	-9.6286E-02	2.6477E-03	-9.63E-02	9.49E-02	-88.40	-6.3393E-04	-1.1792E-04	5.5871E-03	
81	-9.6808E-02	-5.2758E-02	8.9300E-04	-5.28E-02	9.68E-02	-89.47	-5.4043E-04	-6.7971E-06	6.2283E-03	
82	-9.6859E-02	-6.5868E-03	8.9415E-04	-6.59E-03	9.69E-02	-89.47	-3.5420E-04	-8.0101E-04	5.9832E-03	
90	-7.0523E-02	-7.8386E-03	1.0415E-03	-7.84E-03	7.05E-02	-89.15	-3.5311E-04	-4.6714E-04	-6.8803E-03	
91	-7.7086E-02	-1.4212E-01	9.5421E-04	-1.42E-01	7.71E-02	-89.29	-1.4012E-03	-1.0921E-03	-5.0057E-03	
92	-8.7277E-02	-1.9220E-01	4.3350E-03	-1.92E-01	8.74E-02	-87.16	-1.4098E-03	-1.0897E-03	-7.3062E-05	
93	-9.7494E-02	-1.4025E-01	8.8942E-04	-1.40E-01	9.75E-02	-89.48	-1.4032E-03	-1.0878E-03	4.3868E-03	
94	-9.8681E-02	-7.9506E-03	9.0853E-04	-7.95E-03	9.87E-02	-89.47	-3.6086E-04	-4.5405E-04	5.9871E-03	
95	-7.0501E-02	-7.8410E-03	1.0567E-03	-7.84E-03	7.05E-02	-89.14	3.3007E-04	-4.6976E-04	-6.8823E-03	
96	-7.7080E-02	-1.4216E-01	9.5260E-04	-1.42E-01	7.71E-02	-89.29	1.2979E-03	-1.0966E-03	-5.0061E-03	

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97	-8.7273E-02	-1.9224E-01	4.3327E-03	-1.92E-01	8.74E-02	-87.16	1.2887E-03	-1.0925E-03	-7.2617E-05
98	-9.7492E-02	-1.4031E-01	8.8791E-04	-1.40E-01	9.75E-02	-89.48	1.3055E-03	-1.0886E-03	4.3886E-03
99	-9.8698E-02	-7.9898E-03	9.2294E-04	-7.99E-03	9.87E-02	-89.46	3.2205E-04	-4.5544E-04	5.9910E-03
100	-9.6995E-02	-7.7531E-03	1.1193E-03	-7.75E-03	9.70E-02	-89.34	3.3051E-04	-4.4079E-04	-8.2471E-03
101	-9.6353E-02	-1.4247E-01	3.4466E-03	-1.42E-01	9.64E-02	-87.95	1.2971E-03	-1.0806E-03	-4.9867E-03
102	-8.7490E-02	-1.9191E-01	1.0625E-03	-1.92E-01	8.75E-02	-89.30	1.2880E-03	-1.0959E-03	-7.2263E-05
103	-7.8162E-02	-1.4063E-01	3.6366E-03	-1.41E-01	7.82E-02	-87.34	1.3047E-03	-1.1064E-03	4.3868E-03
104	-7.0732E-02	-7.9060E-03	1.0580E-03	-7.91E-03	7.07E-02	-89.14	3.2332E-04	-4.8197E-04	6.0074E-03
105	-9.6972E-02	-7.7510E-03	1.1337E-03	-7.75E-03	9.70E-02	-89.33	-3.5325E-04	-4.2554E-04	-8.2453E-03
106	-9.6356E-02	-1.4243E-01	3.4451E-03	-1.42E-01	9.64E-02	-87.95	-1.4020E-03	-1.0757E-03	-4.9862E-03
107	-8.7497E-02	-1.9187E-01	1.0602E-03	-1.92E-01	8.75E-02	-89.31	-1.4105E-03	-1.0907E-03	-7.2708E-05
108	-7.8172E-02	-1.4057E-01	3.6350E-03	-1.41E-01	7.83E-02	-87.34	-1.4040E-03	-1.1014E-03	4.3851E-03
109	-7.0785E-02	-7.8674E-03	1.0734E-03	-7.87E-03	7.08E-02	-89.13	-3.6181E-04	-4.7903E-04	6.0032E-03
900	-8.6250E-02	-1.8726E-03	-1.6472E-04	-1.87E-03	8.63E-02	89.89	-5.2666E-05	-1.8165E-05	-5.6740E-03
901	-8.6093E-02	-1.5417E-03	-1.6472E-04	-1.54E-03	8.61E-02	89.89	-1.1570E-05	3.4606E-07	-5.6621E-03
902	-8.6250E-02	-1.8705E-03	-1.6482E-04	-1.87E-03	8.62E-02	89.89	2.9454E-05	-1.9637E-05	-5.6741E-03
903	-7.7283E-04	-1.9247E-03	-2.5793E-04	-1.92E-03	8.15E-04	71.54	-6.1644E-05	-2.5502E-08	-4.9898E-05
904	-7.7250E-04	-1.5727E-03	-2.5793E-04	-1.57E-03	8.14E-04	71.54	-1.9231E-05	-1.7834E-16	-4.9898E-05
905	-7.7283E-04	-1.8917E-03	-2.5804E-04	-1.89E-03	8.15E-04	71.54	2.3056E-05	-2.5502E-08	-4.9898E-05
908	-9.2052E-02	-6.3545E-03	-1.6472E-04	-6.35E-03	9.21E-02	89.90	-2.0336E-03	-2.7731E-03	-6.9906E-03
909	-9.2044E-02	-6.3456E-03	-1.6497E-04	-6.35E-03	9.20E-02	89.90	1.9616E-03	-2.7788E-03	-6.9958E-03
910	-7.7929E-04	-6.5402E-03	-2.5793E-04	-6.54E-03	8.21E-04	71.69	-2.0911E-03	-3.0947E-06	-4.9898E-05
911	-7.7929E-04	-6.4093E-03	-2.5823E-04	-6.41E-03	8.21E-04	71.67	1.9405E-03	-3.0947E-06	-4.9898E-05
9908	-9.7426E-02	-6.4065E-03	9.4725E-04	-6.41E-03	9.74E-02	-89.44	3.1483E-04	-7.8426E-04	-8.2802E-03
9909	-9.7417E-02	-6.3975E-03	1.3207E-03	-6.40E-03	9.74E-02	-89.22	-3.4533E-04	-8.1214E-04	-8.2751E-03
9910	-6.5870E-02	-6.5933E-03	8.9011E-04	-6.59E-03	6.59E-02	-89.23	3.0470E-04	-7.6528E-04	6.0116E-03
9911	-6.5923E-02	-6.4622E-03	1.2683E-03	-6.46E-03	6.59E-02	-88.90	-3.5889E-04	-7.5635E-04	5.9990E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 2

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	99	97	911	910	909	9908	907	907	76	909	40	61
DISP	-9.87E-02	-1.92E-01	-2.58E-04	-2.09E-03	-2.78E-03	-8.28E-03	0.00E+00	0.00E+00	4.34E-03	1.96E-03	1.67E-04	6.23E-03

SEISMIC = 3 POP T4 Elevated Pipe Rack [02-14- 9 22:25:23]EDP-PAGE = 30

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 3

NODE	----------TRANSLATIONS----------					----------ROTATIONS----------			
NUMBER	X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	XX	YY	ZZ	NODE TYPE
10	1.2950E-03	-3.4718E-02	-1.1230E-01	-3.47E-02	1.12E-01	-0.66	-8.6322E-03	-5.2182E-04	-6.7054E-03	
11	2.2365E-03	-7.7534E-02	-1.1522E-01	-7.75E-02	1.15E-01	-1.11	-8.9198E-03	-5.9705E-04	-6.7667E-03	
12	3.4638E-03	-1.1763E-01	-1.1993E-01	-1.18E-01	1.20E-01	-1.65	-8.7748E-03	-7.6974E-04	-6.1059E-03	
13	6.6432E-03	-1.5333E-01	-1.2083E-01	-1.53E-01	1.21E-01	-3.15	-8.6194E-03	-3.9604E-04	-4.8067E-03	
14	1.0017E-02	-1.7717E-01	-1.2561E-01	-1.77E-01	1.26E-01	-4.56	-8.5886E-03	-3.6166E-04	-3.1434E-03	
15	1.4096E-02	-1.9378E-01	-1.2398E-01	-1.94E-01	1.25E-01	-6.49	-8.5404E-03	-1.6412E-04	-1.8772E-03	
16	1.8185E-02	-1.9953E-01	-1.2769E-01	-2.00E-01	1.29E-01	-8.11	-8.5487E-03	-3.1109E-05	-5.9905E-06	
17	2.1465E-02	-1.9382E-01	-1.2365E-01	-1.94E-01	1.25E-01	-9.85	-8.5208E-03	-2.4541E-04	1.7960E-03	
18	2.4631E-02	-1.7721E-01	-1.2493E-01	-1.77E-01	1.27E-01	-11.15	-8.5484E-03	-2.6452E-04	3.0462E-03	
19	2.7102E-02	-1.5336E-01	-1.1975E-01	-1.53E-01	1.23E-01	-12.75	-8.5621E-03	-5.7004E-04	4.6026E-03	
20	2.9729E-02	-1.1754E-01	-1.1838E-01	-1.18E-01	1.22E-01	-14.10	-8.6983E-03	-4.7070E-04	5.9332E-03	

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21	3.0472E-02	-7.7315E-02	-1.1310E-01	-7.73E-02	1.17E-01	-15.08	-8.8377E-03	-7.6286E-04	6.5051E-03
22	3.1462E-02	-3.4145E-02	-1.0949E-01	-3.41E-02	1.14E-01	-16.03	-8.5038E-03	-5.8671E-04	6.3215E-03
30	1.5346E-03	-3.5444E-02	-1.1208E-01	-3.54E-02	1.12E-01	-0.78	-1.0117E-02	-5.4258E-04	-6.6676E-03
31	2.6197E-03	-7.8507E-02	-1.1523E-01	-7.85E-02	1.15E-01	-1.30	-1.0058E-02	-5.9881E-04	-6.7247E-03
32	3.7048E-03	-1.1892E-01	-1.1993E-01	-1.19E-01	1.20E-01	-1.77	-1.0000E-02	-7.8695E-04	-6.0717E-03
33	7.0222E-03	-1.5484E-01	-1.2088E-01	-1.55E-01	1.21E-01	-3.32	-1.0083E-02	-3.8984E-04	-4.7757E-03
34	1.0336E-02	-1.7885E-01	-1.2562E-01	-1.79E-01	1.26E-01	-4.70	-1.0165E-02	-3.6495E-04	-3.1307E-03
35	1.4443E-02	-1.9554E-01	-1.2400E-01	-1.96E-01	1.25E-01	-6.64	-1.0231E-02	-1.5929E-04	-1.8640E-03
36	1.8010E-02	-2.0140E-01	-1.2765E-01	-2.01E-01	1.29E-01	-8.03	-1.0298E-02	-3.1097E-05	-5.7022E-06
37	2.1144E-02	-1.9557E-01	-1.2367E-01	-1.96E-01	1.25E-01	-9.70	-1.0210E-02	-2.4244E-04	1.8120E-03
38	2.4255E-02	-1.7888E-01	-1.2494E-01	-1.79E-01	1.27E-01	-10.99	-1.0121E-02	-2.5591E-04	3.0589E-03
39	2.6753E-02	-1.5485E-01	-1.1980E-01	-1.55E-01	1.23E-01	-12.59	-1.0014E-02	-5.7540E-04	4.6297E-03
40	2.9251E-02	-1.1881E-01	-1.1838E-01	-1.19E-01	1.22E-01	-13.88	-9.9067E-03	-4.6018E-04	5.9448E-03
41	3.0109E-02	-7.8263E-02	-1.1311E-01	-7.83E-02	1.17E-01	-14.91	-9.9328E-03	-7.8360E-04	6.5462E-03
42	3.0967E-02	-3.4851E-02	-1.0927E-01	-3.49E-02	1.14E-01	-15.82	-9.9589E-03	-6.0598E-04	6.3344E-03
50	3.0392E-02	-3.4870E-02	-1.6305E-01	-3.49E-02	1.66E-01	-10.56	-8.8572E-03	-6.4502E-04	-6.5124E-03
51	3.0374E-02	-7.7551E-02	-1.6846E-01	-7.76E-02	1.71E-01	-10.22	-8.8316E-03	-1.0278E-03	-6.8160E-03
52	2.8716E-02	-1.1767E-01	-1.7165E-01	-1.18E-01	1.74E-01	-9.50	-8.6948E-03	-6.4210E-04	-6.0609E-03
53	2.7058E-02	-1.5303E-01	-1.7763E-01	-1.53E-01	1.80E-01	-8.66	-8.5579E-03	-6.9430E-04	-4.8106E-03
54	2.4313E-02	-1.7721E-01	-1.7755E-01	-1.77E-01	1.79E-01	-7.80	-8.5075E-03	-2.8307E-04	-3.1685E-03
55	2.1563E-02	-1.9378E-01	-1.8209E-01	-1.94E-01	1.83E-01	-6.75	-8.4571E-03	-2.7340E-04	-1.9036E-03
56	1.8194E-02	-1.9986E-01	-1.7943E-01	-2.00E-01	1.80E-01	-5.79	-8.4464E-03	-4.8484E-05	-6.0238E-06
57	1.3768E-02	-1.9382E-01	-1.8150E-01	-1.94E-01	1.82E-01	-4.34	-8.4356E-03	-2.2696E-04	1.8229E-03
58	9.9061E-03	-1.7725E-01	-1.7637E-01	-1.77E-01	1.77E-01	-3.21	-8.4642E-03	-4.6280E-04	3.0724E-03
59	6.0386E-03	-1.5305E-01	-1.7588E-01	-1.53E-01	1.76E-01	-1.97	-8.4927E-03	-4.8305E-04	4.6049E-03
60	3.7014E-03	-1.1758E-01	-1.6934E-01	-1.18E-01	1.69E-01	-1.25	-8.6049E-03	-8.6526E-04	5.8967E-03
61	1.3639E-03	-7.7324E-02	-1.6560E-01	-7.73E-02	1.66E-01	-0.47	-8.7171E-03	-7.1844E-04	6.5082E-03
62	1.3418E-03	-3.4299E-02	-1.5965E-01	-3.43E-02	1.60E-01	-0.48	-8.7207E-03	-7.6194E-04	6.2978E-03
70	3.0652E-02	-3.5598E-02	-1.6321E-01	-3.56E-02	1.66E-01	-10.64	-9.3143E-03	-6.4674E-04	-6.4768E-03
71	3.0822E-02	-7.8530E-02	-1.6846E-01	-7.85E-02	1.71E-01	-10.37	-9.7222E-03	-9.9799E-04	-6.7680E-03
72	2.8975E-02	-1.1896E-01	-1.7164E-01	-1.19E-01	1.74E-01	-9.58	-9.8319E-03	-6.5929E-04	-6.0327E-03
73	2.7488E-02	-1.5454E-01	-1.7768E-01	-1.55E-01	1.80E-01	-8.79	-9.9720E-03	-6.8019E-04	-4.7794E-03
74	2.4665E-02	-1.7890E-01	-1.7753E-01	-1.79E-01	1.79E-01	-7.91	-1.0072E-02	-2.8467E-04	-3.1563E-03
75	2.1945E-02	-1.9554E-01	-1.8208E-01	-1.96E-01	1.83E-01	-6.87	-1.0149E-02	-2.6234E-04	-1.8908E-03
76	1.7989E-02	-2.0174E-01	-1.7936E-01	-2.02E-01	1.80E-01	-5.73	-1.0230E-02	-4.8478E-05	-5.7282E-06
77	1.3497E-02	-1.9557E-01	-1.8149E-01	-1.96E-01	1.82E-01	-4.25	-1.0127E-02	-2.2643E-04	1.8385E-03
78	9.5725E-03	-1.7892E-01	-1.7636E-01	-1.79E-01	1.77E-01	-3.11	-1.0028E-02	-4.5442E-04	3.0848E-03
79	5.7862E-03	-1.5455E-01	-1.7593E-01	-1.55E-01	1.76E-01	-1.88	-9.9019E-03	-4.8863E-04	4.6319E-03
80	3.2704E-03	-1.1885E-01	-1.6933E-01	-1.19E-01	1.69E-01	-1.11	-9.7420E-03	-8.7423E-04	5.9074E-03
81	1.1275E-03	-7.8279E-02	-1.6560E-01	-7.83E-02	1.66E-01	-0.39	-9.6018E-03	-6.9683E-04	6.5494E-03
82	9.1152E-04	-3.5008E-02	-1.5982E-01	-3.50E-02	1.60E-01	-0.33	-9.1880E-03	-7.5108E-04	6.3146E-03
90	3.2236E-02	-1.7153E-02	-1.6316E-01	-1.72E-02	1.66E-01	-11.18	-7.6576E-03	-6.3385E-04	-6.4136E-03
91	2.8532E-02	-1.4230E-01	-1.7768E-01	-1.42E-01	1.80E-01	-9.12	-8.7013E-03	-4.3077E-04	-4.7199E-03
92	1.8076E-02	-1.9016E-01	-1.7939E-01	-1.90E-01	1.80E-01	-5.75	-8.4339E-03	-4.3812E-05	-1.8787E-06
93	7.0433E-03	-1.4229E-01	-1.7593E-01	-1.42E-01	1.76E-01	-2.29	-8.7064E-03	-5.0917E-04	4.6848E-03
94	2.7005E-03	-1.6927E-02	-1.5977E-01	-1.69E-02	1.60E-01	-0.97	-7.4976E-03	-6.9736E-04	6.3720E-03
95	3.2001E-02	-1.6087E-02	-1.6311E-01	-1.61E-02	1.66E-01	-11.10	-7.0419E-03	-6.3302E-04	-6.4431E-03
96	2.8112E-02	-1.4070E-01	-1.7766E-01	-1.41E-01	1.80E-01	-8.99	-6.0069E-03	-4.2843E-04	-4.7484E-03
97	1.8153E-02	-1.8820E-01	-1.7942E-01	-1.88E-01	1.80E-01	-5.78	-5.7403E-03	-4.5983E-05	-2.1237E-06
98	7.2947E-03	-1.4072E-01	-1.7591E-01	-1.41E-01	1.76E-01	-2.37	-6.0120E-03	-5.1114E-04	4.6584E-03
99	3.1168E-03	-1.5902E-02	-1.5971E-01	-1.59E-02	1.60E-01	-1.12	-6.8785E-03	-7.0153E-04	6.3517E-03
100	2.4540E-03	-1.6677E-02	-1.1223E-01	-1.67E-02	1.12E-01	-1.25	-6.7794E-03	-4.5026E-04	-6.5196E-03
101	7.5027E-03	-1.4101E-01	-1.2085E-01	-1.41E-01	1.21E-01	-3.55	-6.0052E-03	-3.4817E-04	-4.7457E-03
102	1.8148E-02	-1.8789E-01	-1.2768E-01	-1.88E-01	1.29E-01	-8.09	-5.7338E-03	-4.0583E-05	-2.1108E-06
103	2.8155E-02	-1.4102E-01	-1.1977E-01	-1.41E-01	1.23E-01	-13.23	-6.0102E-03	-4.3683E-04	4.6563E-03
104	3.2978E-02	-1.6464E-02	-1.0942E-01	-1.65E-02	1.14E-01	-16.77	-6.6248E-03	-6.1817E-04	6.3719E-03
105	2.7477E-03	-1.6028E-02	-1.1216E-01	-1.60E-02	1.12E-01	-1.40	-7.7382E-03	-4.5749E-04	-6.4854E-03
106	7.8614E-03	-1.4260E-01	-1.2087E-01	-1.43E-01	1.21E-01	-3.72	-8.6996E-03	-3.5109E-04	-4.7176E-03
107	1.8083E-02	-1.8984E-01	-1.2767E-01	-1.90E-01	1.29E-01	-8.06	-8.4274E-03	-3.8576E-05	-1.8725E-06
108	2.7824E-02	-1.4260E-01	-1.1979E-01	-1.43E-01	1.23E-01	-13.08	-8.7046E-03	-4.3504E-04	4.6828E-03
109	3.2501E-02	-1.5839E-02	-1.0935E-01	-1.58E-02	1.14E-01	-16.55	-7.5739E-03	-6.2410E-04	6.3890E-03

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900	-2.9307E-04	-9.1871E-03	-1.0175E-01	-9.19E-03	1.02E-01	0.17	-7.3250E-03	-1.4787E-04	-1.1670E-05
901	-1.6002E-04	-1.5190E-03	-1.0175E-01	-1.52E-03	1.02E-01	0.09	-7.2744E-03	-1.4478E-04	-1.0524E-05
902	-1.5400E-04	-9.1922E-03	-1.0181E-01	-9.19E-03	1.02E-01	0.09	-7.2475E-03	-1.4782E-04	-9.6468E-06
903	-1.7294E-12	-9.0279E-03	-9.9167E-02	-9.03E-03	9.92E-02	0.00	-7.1640E-03	-5.7668E-17	-1.1166E-13
904	-1.7287E-12	-1.5191E-03	-9.9167E-02	-1.52E-03	9.92E-02	0.00	-7.1131E-03	-1.2231E-17	-1.1166E-13
905	-1.7294E-12	-9.0350E-03	-9.9220E-02	-9.03E-03	9.92E-02	0.00	-7.0863E-03	-5.9192E-17	-1.1166E-13
908	-1.5787E-03	-3.4613E-02	-1.0175E-01	-3.46E-02	1.02E-01	0.89	-9.7356E-03	-5.7326E-04	-2.1158E-04
909	-1.3660E-03	-3.5338E-02	-1.0190E-01	-3.53E-02	1.02E-01	0.77	-6.2610E-03	-5.6745E-04	-2.0014E-04
910	-1.7439E-12	-3.4039E-02	-9.9167E-02	-3.40E-02	9.92E-02	0.00	-9.5877E-03	-6.9250E-15	-1.1166E-13
911	-1.7439E-12	-3.4746E-02	-9.9307E-02	-3.47E-02	9.93E-02	0.00	-6.0937E-03	-6.9310E-15	-1.1166E-13
9908	-1.7596E-03	-3.4676E-02	-1.0799E-01	-3.47E-02	1.08E-01	0.93	-8.6321E-03	-5.2182E-04	-6.7101E-03
9909	-1.5331E-03	-3.5401E-02	-1.0687E-01	-3.54E-02	1.07E-01	0.82	-1.0206E-02	-5.4258E-04	-6.6722E-03
9910	3.4695E-02	-3.4103E-02	-1.0524E-01	-3.41E-02	1.11E-01	-18.25	-8.5037E-03	-5.8671E-04	6.3215E-03
9911	3.4183E-02	-3.4809E-02	-1.0415E-01	-3.48E-02	1.10E-01	-18.17	-1.0045E-02	-6.0598E-04	6.3344E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 3

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	9908	76	55	36	51	51	9910	907	907	907	907	81
DISP	-1.76E-03	-2.02E-01	-1.82E-01	-1.03E-02	-1.03E-03	-6.82E-03	3.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-03

SEISMIC = 4 POP T4 Elevated Pipe Rack [02-14- 9 22:25:23]EDP-PAGE = 31

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 4

NODE	----------TRANSLATIONS----------						----------ROTATIONS----------			
NUMBER	X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	XX	YY	ZZ	NODE TYPE
10	1.2950E-03	-3.4718E-02	-1.1230E-01	-3.47E-02	1.12E-01	-0.66	-8.6322E-03	-5.2182E-04	-6.7054E-03	
11	2.2365E-03	-7.7534E-02	-1.1522E-01	-7.75E-02	1.15E-01	-1.11	-8.9198E-03	-5.9705E-04	-6.7667E-03	
12	3.4638E-03	-1.1763E-01	-1.1993E-01	-1.18E-01	1.20E-01	-1.65	-8.7748E-03	-7.6974E-04	-6.1059E-03	
13	6.6432E-03	-1.5333E-01	-1.2083E-01	-1.53E-01	1.21E-01	-3.15	-8.6194E-03	-3.9604E-04	-4.8067E-03	
14	1.0017E-02	-1.7717E-01	-1.2561E-01	-1.77E-01	1.26E-01	-4.56	-8.5886E-03	-3.6166E-04	-3.1434E-03	
15	1.4096E-02	-1.9378E-01	-1.2398E-01	-1.94E-01	1.25E-01	-6.49	-8.5404E-03	-1.6412E-04	-1.8772E-03	
16	1.8185E-02	-1.9953E-01	-1.2769E-01	-2.00E-01	1.29E-01	-8.11	-8.5487E-03	-3.1109E-05	-5.9905E-06	
17	2.1465E-02	-1.9382E-01	-1.2365E-01	-1.94E-01	1.25E-01	-9.85	-8.5208E-03	-2.4541E-04	1.7960E-03	
18	2.4631E-02	-1.7721E-01	-1.2493E-01	-1.77E-01	1.27E-01	-11.15	-8.5484E-03	-2.6452E-04	3.0462E-03	
19	2.7102E-02	-1.5336E-01	-1.1975E-01	-1.53E-01	1.23E-01	-12.75	-8.5621E-03	-5.7004E-04	4.6026E-03	
20	2.9729E-02	-1.1754E-01	-1.1838E-01	-1.18E-01	1.22E-01	-14.10	-8.6983E-03	-4.7070E-04	5.9332E-03	
21	3.0472E-02	-7.7315E-02	-1.1310E-01	-7.73E-02	1.17E-01	-15.08	-8.8377E-03	-7.6286E-04	6.5051E-03	
22	3.1462E-02	-3.4145E-02	-1.0949E-01	-3.41E-02	1.14E-01	-16.03	-8.5038E-03	-5.8671E-04	6.3215E-03	
30	1.5346E-03	-3.5444E-02	-1.1208E-01	-3.54E-02	1.12E-01	-0.78	-1.0117E-02	-5.4258E-04	-6.6676E-03	
31	2.6197E-03	-7.8507E-02	-1.1523E-01	-7.85E-02	1.15E-01	-1.30	-1.0058E-02	-5.9881E-04	-6.7247E-03	
32	3.7048E-03	-1.1892E-01	-1.1993E-01	-1.19E-01	1.20E-01	-1.77	-1.0000E-02	-7.8695E-04	-6.0717E-03	
33	7.0222E-03	-1.5484E-01	-1.2088E-01	-1.55E-01	1.21E-01	-3.32	-1.0083E-02	-3.8984E-04	-4.7757E-03	
34	1.0336E-02	-1.7885E-01	-1.2562E-01	-1.79E-01	1.26E-01	-4.70	-1.0165E-02	-3.6495E-04	-3.1307E-03	
35	1.4443E-02	-1.9554E-01	-1.2400E-01	-1.96E-01	1.25E-01	-6.64	-1.0231E-02	-1.5929E-04	-1.8640E-03	
36	1.8010E-02	-2.0140E-01	-1.2765E-01	-2.01E-01	1.29E-01	-8.03	-1.0298E-02	-3.1097E-05	-5.7022E-06	
37	2.1144E-02	-1.9557E-01	-1.2367E-01	-1.96E-01	1.25E-01	-9.70	-1.0210E-02	-2.4244E-04	1.8120E-03	
38	2.4255E-02	-1.7888E-01	-1.2494E-01	-1.79E-01	1.27E-01	-10.99	-1.0121E-02	-2.5591E-04	3.0589E-03	
39	2.6753E-02	-1.5485E-01	-1.1980E-01	-1.55E-01	1.23E-01	-12.59	-1.0014E-02	-5.7540E-04	4.6297E-03	
40	2.9251E-02	-1.1881E-01	-1.1838E-01	-1.19E-01	1.22E-01	-13.88	-9.9067E-03	-4.6018E-04	5.9448E-03	

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41	3.0109E-02	-7.8263E-02	-1.1311E-01	-7.83E-02	1.17E-01	-14.91	-9.9328E-03	-7.8360E-04	6.5462E-03
42	3.0967E-02	-3.4851E-02	-1.0927E-01	-3.49E-02	1.14E-01	-15.82	-9.9589E-03	-6.0598E-04	6.3344E-03
50	3.0392E-02	-3.4870E-02	-1.6305E-01	-3.49E-02	1.66E-01	-10.56	-8.8572E-03	-6.4502E-04	-6.5124E-03
51	3.0374E-02	-7.7551E-02	-1.6846E-01	-7.76E-02	1.71E-01	-10.22	-8.8316E-03	-1.0278E-03	-6.8160E-03
52	2.8716E-02	-1.1767E-01	-1.7165E-01	-1.18E-01	1.74E-01	-9.50	-8.6948E-03	-6.4210E-04	-6.0609E-03
53	2.7058E-02	-1.5303E-01	-1.7763E-01	-1.53E-01	1.80E-01	-8.66	-8.5579E-03	-6.9430E-04	-4.8106E-03
54	2.4313E-02	-1.7721E-01	-1.7755E-01	-1.77E-01	1.79E-01	-7.80	-8.5075E-03	-2.8307E-04	-3.1685E-03
55	2.1563E-02	-1.9378E-01	-1.8209E-01	-1.94E-01	1.83E-01	-6.75	-8.4571E-03	-2.7340E-04	-1.9036E-03
56	1.8194E-02	-1.9986E-01	-1.7943E-01	-2.00E-01	1.80E-01	-5.79	-8.4464E-03	-4.8484E-05	-6.0238E-06
57	1.3768E-02	-1.9382E-01	-1.8150E-01	-1.94E-01	1.82E-01	-4.34	-8.4356E-03	-2.2696E-04	1.8229E-03
58	9.9061E-03	-1.7725E-01	-1.7637E-01	-1.77E-01	1.77E-01	-3.21	-8.4642E-03	-4.6280E-04	3.0724E-03
59	6.0386E-03	-1.5305E-01	-1.7588E-01	-1.53E-01	1.76E-01	-1.97	-8.4927E-03	-4.8305E-04	4.6049E-03
60	3.7014E-03	-1.1758E-01	-1.6934E-01	-1.18E-01	1.69E-01	-1.25	-8.6049E-03	-8.6526E-04	5.8967E-03
61	1.3639E-03	-7.7324E-02	-1.6560E-01	-7.73E-02	1.66E-01	-0.47	-8.7171E-03	-7.1844E-04	6.5082E-03
62	1.3418E-03	-3.4299E-02	-1.5965E-01	-3.43E-02	1.60E-01	-0.48	-8.7207E-03	-7.6194E-04	6.2978E-03
70	3.0652E-02	-3.5598E-02	-1.6321E-01	-3.56E-02	1.66E-01	-10.64	-9.3143E-03	-6.4674E-04	-6.4768E-03
71	3.0822E-02	-7.8530E-02	-1.6846E-01	-7.85E-02	1.71E-01	-10.37	-9.7222E-03	-9.9799E-04	-6.7680E-03
72	2.8975E-02	-1.1896E-01	-1.7164E-01	-1.19E-01	1.74E-01	-9.58	-9.8319E-03	-6.5929E-04	-6.0327E-03
73	2.7488E-02	-1.5454E-01	-1.7768E-01	-1.55E-01	1.80E-01	-8.79	-9.9720E-03	-6.8019E-04	-4.7794E-03
74	2.4665E-02	-1.7890E-01	-1.7753E-01	-1.79E-01	1.79E-01	-7.91	-1.0072E-02	-2.8467E-04	-3.1563E-03
75	2.1945E-02	-1.9554E-01	-1.8208E-01	-1.96E-01	1.83E-01	-6.87	-1.0149E-02	-2.6234E-04	-1.8908E-03
76	1.7989E-02	-2.0174E-01	-1.7936E-01	-2.02E-01	1.80E-01	-5.73	-1.0230E-02	-4.8478E-05	-5.7282E-06
77	1.3497E-02	-1.9557E-01	-1.8149E-01	-1.96E-01	1.82E-01	-4.25	-1.0127E-02	-2.2643E-04	1.8385E-03
78	9.5725E-03	-1.7892E-01	-1.7636E-01	-1.79E-01	1.77E-01	-3.11	-1.0028E-02	-4.5442E-04	3.0848E-03
79	5.7862E-03	-1.5455E-01	-1.7593E-01	-1.55E-01	1.76E-01	-1.88	-9.9019E-03	-4.8863E-04	4.6319E-03
80	3.2704E-03	-1.1885E-01	-1.6933E-01	-1.19E-01	1.69E-01	-1.11	-9.7420E-03	-8.7423E-04	5.9074E-03
81	1.1275E-03	-7.8279E-02	-1.6560E-01	-7.83E-02	1.66E-01	-0.39	-9.6018E-03	-6.9683E-04	6.5494E-03
82	9.1152E-04	-3.5008E-02	-1.5982E-01	-3.50E-02	1.60E-01	-0.33	-9.1880E-03	-7.5108E-04	6.3146E-03
90	3.2236E-02	-1.7153E-02	-1.6316E-01	-1.72E-02	1.66E-01	-11.18	-7.6576E-03	-6.3385E-04	-6.4136E-03
91	2.8532E-02	-1.4230E-01	-1.7768E-01	-1.42E-01	1.80E-01	-9.12	-8.7013E-03	-4.3077E-04	-4.7199E-03
92	1.8076E-02	-1.9016E-01	-1.7939E-01	-1.90E-01	1.80E-01	-5.75	-8.4339E-03	-4.3812E-05	-1.8787E-06
93	7.0433E-03	-1.4229E-01	-1.7593E-01	-1.42E-01	1.76E-01	-2.29	-8.7064E-03	-5.0917E-04	4.6848E-03
94	2.7005E-03	-1.6927E-02	-1.5977E-01	-1.69E-02	1.60E-01	-0.97	-7.4976E-03	-6.9736E-04	6.3720E-03
95	3.2001E-02	-1.6087E-02	-1.6311E-01	-1.61E-02	1.66E-01	-11.10	-7.0419E-03	-6.3302E-04	-6.4431E-03
96	2.8112E-02	-1.4070E-01	-1.7766E-01	-1.41E-01	1.80E-01	-8.99	-6.0069E-03	-4.2843E-04	-4.7484E-03
97	1.8153E-02	-1.8820E-01	-1.7942E-01	-1.88E-01	1.80E-01	-5.78	-5.7403E-03	-4.5983E-05	-2.1237E-06
98	7.2947E-03	-1.4072E-01	-1.7591E-01	-1.41E-01	1.76E-01	-2.37	-6.0120E-03	-5.1114E-04	4.6584E-03
99	3.1168E-03	-1.5902E-02	-1.5971E-01	-1.59E-02	1.60E-01	-1.12	-6.8785E-03	-7.0153E-04	6.3517E-03
100	2.4540E-03	-1.6677E-02	-1.1223E-01	-1.67E-02	1.12E-01	-1.25	-6.7794E-03	-4.5026E-04	-6.5196E-03
101	7.5027E-03	-1.4101E-01	-1.2085E-01	-1.41E-01	1.21E-01	-3.55	-6.0052E-03	-3.4817E-04	-4.7457E-03
102	1.8148E-02	-1.8789E-01	-1.2768E-01	-1.88E-01	1.29E-01	-8.09	-5.7338E-03	-4.0583E-05	-2.1108E-06
103	2.8155E-02	-1.4102E-01	-1.1977E-01	-1.41E-01	1.23E-01	-13.23	-6.0102E-03	-4.3683E-04	4.6563E-03
104	3.2978E-02	-1.6464E-02	-1.0942E-01	-1.65E-02	1.14E-01	-16.77	-6.6248E-03	-6.1817E-04	6.3719E-03
105	2.7477E-03	-1.6028E-02	-1.1216E-01	-1.60E-02	1.12E-01	-1.40	-7.7382E-03	-4.5749E-04	-6.4854E-03
106	7.8614E-03	-1.4260E-01	-1.2087E-01	-1.43E-01	1.21E-01	-3.72	-8.6996E-03	-3.5109E-04	-4.7176E-03
107	1.8083E-02	-1.8984E-01	-1.2767E-01	-1.90E-01	1.29E-01	-8.06	-8.4274E-03	-3.8576E-05	-1.8725E-06
108	2.7824E-02	-1.4260E-01	-1.1979E-01	-1.43E-01	1.23E-01	-13.08	-8.7046E-03	-4.3504E-04	4.6828E-03
109	3.2501E-02	-1.5839E-02	-1.0935E-01	-1.58E-02	1.14E-01	-16.55	-7.5739E-03	-6.2410E-04	6.3890E-03
900	-2.9307E-04	-9.1871E-03	-1.0175E-01	-9.19E-03	1.02E-01	0.17	-7.3250E-03	-1.4787E-04	-1.1670E-05
901	-1.6002E-04	-1.5190E-03	-1.0175E-01	-1.52E-03	1.02E-01	0.09	-7.2744E-03	-1.4478E-04	-1.0524E-05
902	-1.5400E-04	-9.1922E-03	-1.0181E-01	-9.19E-03	1.02E-01	0.09	-7.2475E-03	-1.4782E-04	-9.6468E-06
903	-1.7294E-12	-9.0279E-03	-9.9167E-02	-9.03E-03	9.92E-02	0.00	-7.1640E-03	-5.7668E-17	-1.1166E-13
904	-1.7287E-12	-1.5191E-03	-9.9167E-02	-1.52E-03	9.92E-02	0.00	-7.1131E-03	-1.2231E-17	-1.1166E-13
905	-1.7294E-12	-9.0350E-03	-9.9220E-02	-9.03E-03	9.92E-02	0.00	-7.0863E-03	-5.9192E-17	-1.1166E-13
908	-1.5787E-03	-3.4613E-02	-1.0175E-01	-3.46E-02	1.02E-01	0.89	-9.7356E-03	-5.7326E-04	-2.1158E-04
909	-1.3660E-03	-3.5338E-02	-1.0190E-01	-3.53E-02	1.02E-01	0.77	-6.2610E-03	-5.6745E-04	-2.0014E-04
910	-1.7439E-12	-3.4039E-02	-9.9167E-02	-3.40E-02	9.92E-02	0.00	-9.5877E-03	-6.9250E-15	-1.1166E-13
911	-1.7439E-12	-3.4746E-02	-9.9307E-02	-3.47E-02	9.93E-02	0.00	-6.0937E-03	-6.9310E-15	-1.1166E-13
9908	-1.7596E-03	-3.4676E-02	-1.0799E-01	-3.47E-02	1.08E-01	0.93	-8.6321E-03	-5.2182E-04	-6.7101E-03
9909	-1.5331E-03	-3.5401E-02	-1.0687E-01	-3.54E-02	1.07E-01	0.82	-1.0206E-02	-5.4258E-04	-6.6722E-03
9910	3.4695E-02	-3.4103E-02	-1.0524E-01	-3.41E-02	1.11E-01	-18.25	-8.5037E-03	-5.8671E-04	6.3215E-03

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 9911  3.4183E-02 -3.4809E-02 -1.0415E-01 -3.48E-02  1.10E-01    -18.17 -1.0045E-02 -6.0598E-04  6.3344E-03

.......PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE     4

     ----MINIMUM TRANSLATIONS----  -----MINIMUM ROTATIONS------  ----MAXIMUM TRANSLATIONS----  -----MAXIMUM ROTATIONS------
            X          Y          Z         XX         YY         ZZ         X          Y          Z         XX         YY         ZZ

NODE      9908         76         55         36         51         51      9910        907        907        907        907         81
DISP -1.76E-03 -2.02E-01 -1.82E-01 -1.03E-02 -1.03E-03 -6.82E-03  3.47E-02  0.00E+00  0.00E+00  0.00E+00  0.00E+00  6.55E-03


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SEISMIC  =     5   POP T4 Elevated Pipe Rack                                                  [ 02-14- 9 22:25:23]EDP-PAGE =    32
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.......SEISMIC NODE DISPLACEMENT ENVELOPE SUMMARY

SEIS       ----MINIMUM TRANSLATIONS----  -----MINIMUM ROTATIONS------  ----MAXIMUM TRANSLATIONS----  -----MAXIMUM ROTATIONS------
CASE            X          Y          Z         XX         YY         ZZ         X          Y          Z         XX         YY         ZZ

   1 NODE       99         97        911        910        909       9908        904        901         76        909         40         61
     DISP -9.87E-02 -1.92E-01 -2.58E-04 -2.09E-03 -2.78E-03 -8.28E-03 -7.72E-04 -1.54E-03  4.34E-03  1.96E-03  1.67E-04  6.23E-03

   2 NODE       99         97        911        910        909       9908        904        901         76        909         40         61
     DISP -9.87E-02 -1.92E-01 -2.58E-04 -2.09E-03 -2.78E-03 -8.28E-03 -7.72E-04 -1.54E-03  4.34E-03  1.96E-03  1.67E-04  6.23E-03

   3 NODE     9908         76         55         36         51         51      9910        901        904        102        904         81
     DISP -1.76E-03 -2.02E-01 -1.82E-01 -1.03E-02 -1.03E-03 -6.82E-03  3.47E-02 -1.52E-03 -9.92E-02 -5.73E-03 -1.22E-17  6.55E-03

   4 NODE     9908         76         55         36         51         51      9910        901        904        102        904         81
     DISP -1.76E-03 -2.02E-01 -1.82E-01 -1.03E-02 -1.03E-03 -6.82E-03  3.47E-02 -1.52E-03 -9.92E-02 -5.73E-03 -1.22E-17  6.55E-03


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SEISMIC  =     6   POP T4 Elevated Pipe Rack                                                  [ 02-14- 9 22:25:23]EDP-PAGE =    33
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.......SEISMIC NODE REACTIONS

  NODE LOAD  ----------------------------FORCE-----------------------------  --------------MOMENT--------------
NUMBER CASE          X          Y          Z  VERTICAL   LATERAL  DEGREE-Z          XX         YY         ZZ

   906    1  1.6641E+01 -3.4796E+01  1.2659E-02 -3.48E+01  1.66E+01     89.96  3.2210E-01  1.2082E-01  3.8093E+02
   907    1  1.5647E-01 -3.4087E+01  1.9480E-02 -3.41E+01  1.58E-01     82.90  5.6566E-01  1.1639E-11  3.4657E+00
 TOTAL    1  1.6798E+01 -6.8883E+01  3.2139E-02 -6.89E+01  1.68E+01     89.89  8.8776E-01  1.2082E-01  3.8440E+02

   906    2 -1.6641E+01 -3.5921E+01 -1.4498E-02 -3.59E+01  1.66E+01     89.95 -3.5946E-01  2.2585E-02 -3.8093E+02
   907    2 -1.5647E-01 -3.6629E+01 -1.7641E-02 -3.66E+01  1.57E-01     83.57 -5.2830E-01 -1.1639E-11 -3.4657E+00
 TOTAL    2 -1.6798E+01 -7.2550E+01 -3.2139E-02 -7.25E+01  1.68E+01     89.89 -8.8776E-01  2.2585E-02 -3.8440E+02

   906    3  3.0929E-02 -3.5313E+01  8.2213E+00 -3.53E+01  8.22E+00      0.22  2.1759E+02  9.5921E+00  7.0801E-01
   907    3  3.5014E-10 -3.5311E+01  7.9157E+00 -3.53E+01  7.92E+00      0.00  2.1143E+02  7.9821E-13  7.7556E-09
 TOTAL    3  3.0929E-02 -7.0624E+01  1.6137E+01 -7.06E+01  1.61E+01      0.11  4.2903E+02  9.5921E+00  7.0801E-01
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906	4	-3.0929E-02	-3.5404E+01	-8.2231E+00	-3.54E+01	8.22E+00	0.22	-2.1763E+02	-9.4487E+00	-7.0801E-01
907	4	-3.5014E-10	-3.5405E+01	-7.9138E+00	-3.54E+01	7.91E+00	0.00	-2.1140E+02	-7.9821E-13	-7.7556E-09
TOTAL	4	-3.0929E-02	-7.0809E+01	-1.6137E+01	-7.08E+01	1.61E+01	0.11	-4.2903E+02	-9.4487E+00	-7.0801E-01

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
10	1	10	2.436E+00	7.628E-01	-7.648E-01	-6.875E-05	1.937E+00	2.368E+00	-7.94E+01	3.46E+02	1.48E+03	0.265
			-2.102E+00	4.079E-02	7.751E-01	3.271E-03	1.356E-03	4.507E-01	-6.85E+01	2.42E-01	2.82E+02	0.049
		50	-2.059E+00	4.079E-02	7.751E-01	3.271E-03	1.938E+00	1.446E+00	-6.71E+01	3.46E+02	9.04E+02	0.183
10	2	10	2.145E+00	-4.079E-02	-7.751E-01	-3.271E-03	1.911E+00	-5.526E-01	-6.99E+01	3.41E+02	-3.45E+02	0.105
			-2.393E+00	-7.628E-01	7.648E-01	6.875E-05	-2.264E-04	-4.613E-01	-7.80E+01	-4.04E-02	-2.88E+02	0.051
		50	-2.350E+00	-7.628E-01	7.648E-01	6.875E-05	1.912E+00	3.486E-01	-7.66E+01	3.41E+02	2.18E+02	0.088
10	3	10	3.955E+00	4.111E-01	1.842E+00	4.525E-03	8.716E+00	1.100E+00	-1.29E+02	1.56E+03	6.87E+02	0.330
			-5.836E-01	-3.109E-01	3.381E+00	7.865E-03	2.645E-01	6.158E-02	-1.90E+01	4.72E+01	3.85E+01	0.015
		50	-5.406E-01	-3.109E-01	3.381E+00	7.865E-03	8.191E+00	9.564E-01	-1.76E+01	1.46E+03	5.98E+02	0.289
10	4	10	6.266E-01	3.109E-01	-3.381E+00	-7.865E-03	-4.868E+00	7.159E-01	-2.04E+01	-8.69E+02	4.47E+02	0.186
			-3.912E+00	-4.111E-01	-1.842E+00	-4.525E-03	-2.633E-01	-7.221E-02	-1.27E+02	-4.70E+01	-4.51E+01	0.030
		50	-3.869E+00	-4.111E-01	-1.842E+00	-4.525E-03	-4.340E+00	8.379E-01	-1.26E+02	-7.75E+02	5.24E+02	0.198
11	1	11	5.947E-01	0.000E+00	0.000E+00	7.810E-03	0.000E+00	0.000E+00	-4.57E+01	0.00E+00	0.00E+00	0.006
			5.007E-01	0.000E+00	0.000E+00	-7.346E-03	0.000E+00	0.000E+00	3.85E+01	0.00E+00	0.00E+00	0.005
		51	5.189E-01	0.000E+00	0.000E+00	-7.346E-03	0.000E+00	0.000E+00	3.99E+01	0.00E+00	0.00E+00	0.006
11	2	11	-4.825E-01	0.000E+00	0.000E+00	7.346E-03	0.000E+00	0.000E+00	3.71E+01	0.00E+00	0.00E+00	0.005
			-5.765E-01	0.000E+00	0.000E+00	-7.810E-03	0.000E+00	0.000E+00	-4.43E+01	0.00E+00	0.00E+00	0.006
		51	-5.583E-01	0.000E+00	0.000E+00	-7.810E-03	0.000E+00	0.000E+00	-4.29E+01	0.00E+00	0.00E+00	0.006
11	3	11	2.013E-01	0.000E+00	0.000E+00	1.444E-02	0.000E+00	0.000E+00	-1.55E+01	0.00E+00	0.00E+00	0.002
			1.073E-01	0.000E+00	0.000E+00	-7.162E-04	0.000E+00	0.000E+00	8.25E+00	0.00E+00	0.00E+00	0.001
		51	1.255E-01	0.000E+00	0.000E+00	-7.162E-04	0.000E+00	0.000E+00	9.65E+00	0.00E+00	0.00E+00	0.001
11	4	11	-8.907E-02	0.000E+00	0.000E+00	7.162E-04	0.000E+00	0.000E+00	6.85E+00	0.00E+00	0.00E+00	0.001
			-1.831E-01	0.000E+00	0.000E+00	-1.444E-02	0.000E+00	0.000E+00	-1.41E+01	0.00E+00	0.00E+00	0.002
		51	-1.648E-01	0.000E+00	0.000E+00	-1.444E-02	0.000E+00	0.000E+00	-1.27E+01	0.00E+00	0.00E+00	0.002
12	1	12	4.287E-01	0.000E+00	0.000E+00	-8.012E-03	0.000E+00	0.000E+00	-3.30E+01	0.00E+00	0.00E+00	0.005
			-1.510E-01	0.000E+00	0.000E+00	8.557E-03	0.000E+00	0.000E+00	-1.16E+01	0.00E+00	0.00E+00	0.002
		52	-1.328E-01	0.000E+00	0.000E+00	8.557E-03	0.000E+00	0.000E+00	-1.02E+01	0.00E+00	0.00E+00	0.001
12	2	12	1.693E-01	0.000E+00	0.000E+00	-8.557E-03	0.000E+00	0.000E+00	-1.30E+01	0.00E+00	0.00E+00	0.002
			-4.105E-01	0.000E+00	0.000E+00	8.012E-03	0.000E+00	0.000E+00	-3.16E+01	0.00E+00	0.00E+00	0.004
		52	-3.923E-01	0.000E+00	0.000E+00	8.012E-03	0.000E+00	0.000E+00	-3.02E+01	0.00E+00	0.00E+00	0.004
12	3	12	4.092E-01	0.000E+00	0.000E+00	-3.423E-03	0.000E+00	0.000E+00	-3.15E+01	0.00E+00	0.00E+00	0.004
			-1.705E-01	0.000E+00	0.000E+00	1.315E-02	0.000E+00	0.000E+00	-1.31E+01	0.00E+00	0.00E+00	0.002
		52	-1.523E-01	0.000E+00	0.000E+00	1.315E-02	0.000E+00	0.000E+00	-1.17E+01	0.00E+00	0.00E+00	0.002
12	4	12	1.888E-01	0.000E+00	0.000E+00	-1.315E-02	0.000E+00	0.000E+00	-1.45E+01	0.00E+00	0.00E+00	0.002
			-3.910E-01	0.000E+00	0.000E+00	3.423E-03	0.000E+00	0.000E+00	-3.01E+01	0.00E+00	0.00E+00	0.004

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		52	-3.728E-01	0.000E+00	0.000E+00	3.423E-03	0.000E+00	0.000E+00	-2.87E+01	0.00E+00	0.00E+00	0.004
13	1	13	-3.291E+00	0.000E+00	0.000E+00	6.725E-03	0.000E+00	0.000E+00	2.53E+02	0.00E+00	0.00E+00	0.035
			3.455E+00	0.000E+00	0.000E+00	-6.359E-03	0.000E+00	0.000E+00	2.66E+02	0.00E+00	0.00E+00	0.037
		53	3.473E+00	0.000E+00	0.000E+00	-6.359E-03	0.000E+00	0.000E+00	2.67E+02	0.00E+00	0.00E+00	0.037
13	2	13	-3.437E+00	0.000E+00	0.000E+00	6.359E-03	0.000E+00	0.000E+00	2.64E+02	0.00E+00	0.00E+00	0.037
			3.309E+00	0.000E+00	0.000E+00	-6.725E-03	0.000E+00	0.000E+00	2.55E+02	0.00E+00	0.00E+00	0.035
		53	3.328E+00	0.000E+00	0.000E+00	-6.725E-03	0.000E+00	0.000E+00	2.56E+02	0.00E+00	0.00E+00	0.036
13	3	13	-3.245E+00	0.000E+00	0.000E+00	1.020E-02	0.000E+00	0.000E+00	2.50E+02	0.00E+00	0.00E+00	0.035
			3.501E+00	0.000E+00	0.000E+00	-2.887E-03	0.000E+00	0.000E+00	2.69E+02	0.00E+00	0.00E+00	0.037
		53	3.520E+00	0.000E+00	0.000E+00	-2.887E-03	0.000E+00	0.000E+00	2.71E+02	0.00E+00	0.00E+00	0.038
13	4	13	-3.483E+00	0.000E+00	0.000E+00	2.887E-03	0.000E+00	0.000E+00	2.68E+02	0.00E+00	0.00E+00	0.037
			3.263E+00	0.000E+00	0.000E+00	-1.020E-02	0.000E+00	0.000E+00	2.51E+02	0.00E+00	0.00E+00	0.035
		53	3.281E+00	0.000E+00	0.000E+00	-1.020E-02	0.000E+00	0.000E+00	2.52E+02	0.00E+00	0.00E+00	0.035
14	1	14	2.983E-01	0.000E+00	0.000E+00	-3.711E-03	0.000E+00	0.000E+00	-2.29E+01	0.00E+00	0.00E+00	0.003
			-1.289E-01	0.000E+00	0.000E+00	4.158E-03	0.000E+00	0.000E+00	-9.91E+00	0.00E+00	0.00E+00	0.001
		54	-1.106E-01	0.000E+00	0.000E+00	4.158E-03	0.000E+00	0.000E+00	-8.51E+00	0.00E+00	0.00E+00	0.001
14	2	14	1.471E-01	0.000E+00	0.000E+00	-4.158E-03	0.000E+00	0.000E+00	-1.13E+01	0.00E+00	0.00E+00	0.002
			-2.800E-01	0.000E+00	0.000E+00	3.711E-03	0.000E+00	0.000E+00	-2.15E+01	0.00E+00	0.00E+00	0.003
		54	-2.618E-01	0.000E+00	0.000E+00	3.711E-03	0.000E+00	0.000E+00	-2.01E+01	0.00E+00	0.00E+00	0.003
14	3	14	4.269E-01	0.000E+00	0.000E+00	-1.973E-03	0.000E+00	0.000E+00	-3.28E+01	0.00E+00	0.00E+00	0.005
			-1.787E-04	0.000E+00	0.000E+00	5.895E-03	0.000E+00	0.000E+00	-1.37E-02	0.00E+00	0.00E+00	0.000
		54	1.804E-02	0.000E+00	0.000E+00	5.895E-03	0.000E+00	0.000E+00	1.39E+00	0.00E+00	0.00E+00	0.000
14	4	14	1.840E-02	0.000E+00	0.000E+00	-5.895E-03	0.000E+00	0.000E+00	-1.42E+00	0.00E+00	0.00E+00	0.000
			-4.087E-01	0.000E+00	0.000E+00	1.973E-03	0.000E+00	0.000E+00	-3.14E+01	0.00E+00	0.00E+00	0.004
		54	-3.905E-01	0.000E+00	0.000E+00	1.973E-03	0.000E+00	0.000E+00	-3.00E+01	0.00E+00	0.00E+00	0.004
15	1	15	-1.897E-01	0.000E+00	0.000E+00	2.844E-03	0.000E+00	0.000E+00	1.46E+01	0.00E+00	0.00E+00	0.002
			3.129E-01	0.000E+00	0.000E+00	-2.476E-03	0.000E+00	0.000E+00	2.41E+01	0.00E+00	0.00E+00	0.003
		55	3.311E-01	0.000E+00	0.000E+00	-2.476E-03	0.000E+00	0.000E+00	2.55E+01	0.00E+00	0.00E+00	0.004
15	2	15	-2.947E-01	0.000E+00	0.000E+00	2.476E-03	0.000E+00	0.000E+00	2.27E+01	0.00E+00	0.00E+00	0.003
			2.079E-01	0.000E+00	0.000E+00	-2.844E-03	0.000E+00	0.000E+00	1.60E+01	0.00E+00	0.00E+00	0.002
		55	2.261E-01	0.000E+00	0.000E+00	-2.844E-03	0.000E+00	0.000E+00	1.74E+01	0.00E+00	0.00E+00	0.002
15	3	15	-2.635E-02	0.000E+00	0.000E+00	3.903E-03	0.000E+00	0.000E+00	2.03E+00	0.00E+00	0.00E+00	0.000
			4.762E-01	0.000E+00	0.000E+00	-1.417E-03	0.000E+00	0.000E+00	3.66E+01	0.00E+00	0.00E+00	0.005
		55	4.945E-01	0.000E+00	0.000E+00	-1.417E-03	0.000E+00	0.000E+00	3.80E+01	0.00E+00	0.00E+00	0.005
15	4	15	-4.580E-01	0.000E+00	0.000E+00	1.417E-03	0.000E+00	0.000E+00	3.52E+01	0.00E+00	0.00E+00	0.005
			4.457E-02	0.000E+00	0.000E+00	-3.903E-03	0.000E+00	0.000E+00	3.43E+00	0.00E+00	0.00E+00	0.000
		55	6.278E-02	0.000E+00	0.000E+00	-3.903E-03	0.000E+00	0.000E+00	4.83E+00	0.00E+00	0.00E+00	0.001
16	1	16	3.517E+00	0.000E+00	0.000E+00	3.025E-04	0.000E+00	0.000E+00	-2.71E+02	0.00E+00	0.00E+00	0.038
			-3.168E+00	0.000E+00	0.000E+00	2.945E-04	0.000E+00	0.000E+00	-2.44E+02	0.00E+00	0.00E+00	0.034
		56	-3.150E+00	0.000E+00	0.000E+00	2.945E-04	0.000E+00	0.000E+00	-2.42E+02	0.00E+00	0.00E+00	0.034
16	2	16	3.186E+00	0.000E+00	0.000E+00	-2.945E-04	0.000E+00	0.000E+00	-2.45E+02	0.00E+00	0.00E+00	0.034
			-3.498E+00	0.000E+00	0.000E+00	-3.025E-04	0.000E+00	0.000E+00	-2.69E+02	0.00E+00	0.00E+00	0.037
		56	-3.480E+00	0.000E+00	0.000E+00	-3.025E-04	0.000E+00	0.000E+00	-2.68E+02	0.00E+00	0.00E+00	0.037
16	3	16	3.648E+00	0.000E+00	0.000E+00	6.115E-04	0.000E+00	0.000E+00	-2.81E+02	0.00E+00	0.00E+00	0.039
			-3.037E+00	0.000E+00	0.000E+00	6.034E-04	0.000E+00	0.000E+00	-2.34E+02	0.00E+00	0.00E+00	0.032
		56	-3.018E+00	0.000E+00	0.000E+00	6.034E-04	0.000E+00	0.000E+00	-2.32E+02	0.00E+00	0.00E+00	0.032

16	4	16	3.055E+00	0.000E+00	0.000E+00	-6.034E-04	0.000E+00	0.000E+00	-2.35E+02	0.00E+00	0.00E+00	0.033
			-3.630E+00	0.000E+00	0.000E+00	-6.115E-04	0.000E+00	0.000E+00	-2.79E+02	0.00E+00	0.00E+00	0.039
		56	-3.611E+00	0.000E+00	0.000E+00	-6.115E-04	0.000E+00	0.000E+00	-2.78E+02	0.00E+00	0.00E+00	0.039
17	1	17	-2.052E-01	0.000E+00	0.000E+00	-2.356E-03	0.000E+00	0.000E+00	1.58E+01	0.00E+00	0.00E+00	0.002
			2.973E-01	0.000E+00	0.000E+00	2.949E-03	0.000E+00	0.000E+00	2.29E+01	0.00E+00	0.00E+00	0.003
		57	3.155E-01	0.000E+00	0.000E+00	2.949E-03	0.000E+00	0.000E+00	2.43E+01	0.00E+00	0.00E+00	0.003
17	2	17	-2.791E-01	0.000E+00	0.000E+00	-2.949E-03	0.000E+00	0.000E+00	2.15E+01	0.00E+00	0.00E+00	0.003
			2.234E-01	0.000E+00	0.000E+00	2.356E-03	0.000E+00	0.000E+00	1.72E+01	0.00E+00	0.00E+00	0.002
		57	2.417E-01	0.000E+00	0.000E+00	2.356E-03	0.000E+00	0.000E+00	1.86E+01	0.00E+00	0.00E+00	0.003
17	3	17	-2.412E-02	0.000E+00	0.000E+00	-4.307E-04	0.000E+00	0.000E+00	1.86E+00	0.00E+00	0.00E+00	0.000
			4.784E-01	0.000E+00	0.000E+00	4.874E-03	0.000E+00	0.000E+00	3.68E+01	0.00E+00	0.00E+00	0.005
		57	4.967E-01	0.000E+00	0.000E+00	4.874E-03	0.000E+00	0.000E+00	3.82E+01	0.00E+00	0.00E+00	0.005
17	4	17	-4.602E-01	0.000E+00	0.000E+00	-4.874E-03	0.000E+00	0.000E+00	3.54E+01	0.00E+00	0.00E+00	0.005
			4.233E-02	0.000E+00	0.000E+00	4.307E-04	0.000E+00	0.000E+00	3.26E+00	0.00E+00	0.00E+00	0.000
		57	6.055E-02	0.000E+00	0.000E+00	4.307E-04	0.000E+00	0.000E+00	4.66E+00	0.00E+00	0.00E+00	0.001
18	1	18	2.622E-01	0.000E+00	0.000E+00	4.361E-03	0.000E+00	0.000E+00	-2.02E+01	0.00E+00	0.00E+00	0.003
			-1.650E-01	0.000E+00	0.000E+00	-3.520E-03	0.000E+00	0.000E+00	-1.27E+01	0.00E+00	0.00E+00	0.002
		58	-1.468E-01	0.000E+00	0.000E+00	-3.520E-03	0.000E+00	0.000E+00	-1.13E+01	0.00E+00	0.00E+00	0.002
18	2	18	1.832E-01	0.000E+00	0.000E+00	3.520E-03	0.000E+00	0.000E+00	-1.41E+01	0.00E+00	0.00E+00	0.002
			-2.440E-01	0.000E+00	0.000E+00	-4.361E-03	0.000E+00	0.000E+00	-1.88E+01	0.00E+00	0.00E+00	0.003
		58	-2.258E-01	0.000E+00	0.000E+00	-4.361E-03	0.000E+00	0.000E+00	-1.74E+01	0.00E+00	0.00E+00	0.002
18	3	18	4.324E-01	0.000E+00	0.000E+00	6.698E-03	0.000E+00	0.000E+00	-3.33E+01	0.00E+00	0.00E+00	0.005
			5.178E-03	0.000E+00	0.000E+00	-1.183E-03	0.000E+00	0.000E+00	3.98E-01	0.00E+00	0.00E+00	0.000
		58	2.339E-02	0.000E+00	0.000E+00	-1.183E-03	0.000E+00	0.000E+00	1.80E+00	0.00E+00	0.00E+00	0.000
18	4	18	1.304E-02	0.000E+00	0.000E+00	1.183E-03	0.000E+00	0.000E+00	-1.00E+00	0.00E+00	0.00E+00	0.000
			-4.142E-01	0.000E+00	0.000E+00	-6.698E-03	0.000E+00	0.000E+00	-3.19E+01	0.00E+00	0.00E+00	0.004
		58	-3.959E-01	0.000E+00	0.000E+00	-6.698E-03	0.000E+00	0.000E+00	-3.05E+01	0.00E+00	0.00E+00	0.004
19	1	19	-3.290E+00	0.000E+00	0.000E+00	-6.140E-03	0.000E+00	0.000E+00	2.53E+02	0.00E+00	0.00E+00	0.035
			3.456E+00	0.000E+00	0.000E+00	6.936E-03	0.000E+00	0.000E+00	2.66E+02	0.00E+00	0.00E+00	0.037
		59	3.474E+00	0.000E+00	0.000E+00	6.936E-03	0.000E+00	0.000E+00	2.67E+02	0.00E+00	0.00E+00	0.037
19	2	19	-3.438E+00	0.000E+00	0.000E+00	-6.936E-03	0.000E+00	0.000E+00	2.64E+02	0.00E+00	0.00E+00	0.037
			3.308E+00	0.000E+00	0.000E+00	6.140E-03	0.000E+00	0.000E+00	2.54E+02	0.00E+00	0.00E+00	0.035
		59	3.327E+00	0.000E+00	0.000E+00	6.140E-03	0.000E+00	0.000E+00	2.56E+02	0.00E+00	0.00E+00	0.036
19	3	19	-3.242E+00	0.000E+00	0.000E+00	-2.285E-03	0.000E+00	0.000E+00	2.49E+02	0.00E+00	0.00E+00	0.035
			3.505E+00	0.000E+00	0.000E+00	1.079E-02	0.000E+00	0.000E+00	2.70E+02	0.00E+00	0.00E+00	0.037
		59	3.523E+00	0.000E+00	0.000E+00	1.079E-02	0.000E+00	0.000E+00	2.71E+02	0.00E+00	0.00E+00	0.038
19	4	19	-3.486E+00	0.000E+00	0.000E+00	-1.079E-02	0.000E+00	0.000E+00	2.68E+02	0.00E+00	0.00E+00	0.037
			3.260E+00	0.000E+00	0.000E+00	2.285E-03	0.000E+00	0.000E+00	2.51E+02	0.00E+00	0.00E+00	0.035
		59	3.278E+00	0.000E+00	0.000E+00	2.285E-03	0.000E+00	0.000E+00	2.52E+02	0.00E+00	0.00E+00	0.035
20	1	20	3.231E-01	0.000E+00	0.000E+00	8.813E-03	0.000E+00	0.000E+00	-2.49E+01	0.00E+00	0.00E+00	0.003
			-2.569E-01	0.000E+00	0.000E+00	-7.757E-03	0.000E+00	0.000E+00	-1.98E+01	0.00E+00	0.00E+00	0.003
		60	-2.387E-01	0.000E+00	0.000E+00	-7.757E-03	0.000E+00	0.000E+00	-1.84E+01	0.00E+00	0.00E+00	0.003
20	2	20	2.752E-01	0.000E+00	0.000E+00	7.757E-03	0.000E+00	0.000E+00	-2.12E+01	0.00E+00	0.00E+00	0.003
			-3.049E-01	0.000E+00	0.000E+00	-8.813E-03	0.000E+00	0.000E+00	-2.35E+01	0.00E+00	0.00E+00	0.003
		60	-2.866E-01	0.000E+00	0.000E+00	-8.813E-03	0.000E+00	0.000E+00	-2.20E+01	0.00E+00	0.00E+00	0.003

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20	3	20	4.257E-01	0.000E+00	0.000E+00	1.335E-02	0.000E+00	0.000E+00	-3.27E+01	0.00E+00	0.00E+00	0.005
			-1.543E-01	0.000E+00	0.000E+00	-3.224E-03	0.000E+00	0.000E+00	-1.19E+01	0.00E+00	0.00E+00	0.002
		60	-1.361E-01	0.000E+00	0.000E+00	-3.224E-03	0.000E+00	0.000E+00	-1.05E+01	0.00E+00	0.00E+00	0.001
20	4	20	1.726E-01	0.000E+00	0.000E+00	3.224E-03	0.000E+00	0.000E+00	-1.33E+01	0.00E+00	0.00E+00	0.002
			-4.075E-01	0.000E+00	0.000E+00	-1.335E-02	0.000E+00	0.000E+00	-3.13E+01	0.00E+00	0.00E+00	0.004
		60	-3.892E-01	0.000E+00	0.000E+00	-1.335E-02	0.000E+00	0.000E+00	-2.99E+01	0.00E+00	0.00E+00	0.004
21	1	21	7.578E-02	0.000E+00	0.000E+00	-6.770E-03	0.000E+00	0.000E+00	-5.83E+00	0.00E+00	0.00E+00	0.001
			-1.698E-02	0.000E+00	0.000E+00	8.390E-03	0.000E+00	0.000E+00	-1.31E+00	0.00E+00	0.00E+00	0.000
		61	1.241E-03	0.000E+00	0.000E+00	8.390E-03	0.000E+00	0.000E+00	9.55E-02	0.00E+00	0.00E+00	0.000
21	2	21	3.519E-02	0.000E+00	0.000E+00	-8.390E-03	0.000E+00	0.000E+00	-2.71E+00	0.00E+00	0.00E+00	0.000
			-5.756E-02	0.000E+00	0.000E+00	6.770E-03	0.000E+00	0.000E+00	-4.43E+00	0.00E+00	0.00E+00	0.001
		61	-3.935E-02	0.000E+00	0.000E+00	6.770E-03	0.000E+00	0.000E+00	-3.03E+00	0.00E+00	0.00E+00	0.000
21	3	21	1.183E-01	0.000E+00	0.000E+00	-7.678E-04	0.000E+00	0.000E+00	-9.10E+00	0.00E+00	0.00E+00	0.001
			2.551E-02	0.000E+00	0.000E+00	1.439E-02	0.000E+00	0.000E+00	1.96E+00	0.00E+00	0.00E+00	0.000
		61	4.372E-02	0.000E+00	0.000E+00	1.439E-02	0.000E+00	0.000E+00	3.36E+00	0.00E+00	0.00E+00	0.000
21	4	21	-7.291E-03	0.000E+00	0.000E+00	-1.439E-02	0.000E+00	0.000E+00	5.61E-01	0.00E+00	0.00E+00	0.000
			-1.000E-01	0.000E+00	0.000E+00	7.678E-04	0.000E+00	0.000E+00	-7.70E+00	0.00E+00	0.00E+00	0.001
		61	-8.183E-02	0.000E+00	0.000E+00	7.678E-04	0.000E+00	0.000E+00	-6.29E+00	0.00E+00	0.00E+00	0.001
22	1	22	2.314E+00	-3.399E-01	-7.591E-01	2.303E-03	1.956E+00	-8.553E-01	-7.54E+01	3.49E+02	-5.35E+02	0.133
			-2.226E+00	3.830E-01	7.812E-01	-1.012E-03	4.157E-03	6.094E-03	-7.25E+01	7.42E-01	3.81E+00	0.011
		62	-2.182E+00	3.830E-01	7.812E-01	-1.012E-03	1.950E+00	-8.441E-01	-7.11E+01	3.48E+02	-5.28E+02	0.132
22	2	22	2.269E+00	-3.830E-01	-7.812E-01	1.012E-03	1.894E+00	-9.637E-01	-7.39E+01	3.38E+02	-6.02E+02	0.141
			-2.271E+00	3.399E-01	7.591E-01	-2.303E-03	-2.914E-03	5.580E-03	-7.40E+01	-5.20E-01	3.49E+00	0.011
		62	-2.228E+00	3.399E-01	7.591E-01	-2.303E-03	1.902E+00	-9.515E-01	-7.26E+01	3.40E+02	-5.95E+02	0.140
22	3	22	4.005E+00	-3.465E-01	1.876E+00	6.443E-03	8.795E+00	-8.691E-01	-1.30E+02	1.57E+03	-5.43E+02	0.312
			-5.342E-01	3.764E-01	3.417E+00	3.128E-03	2.551E-01	9.089E-03	-1.74E+01	4.56E+01	5.68E+00	0.010
		62	-4.911E-01	3.764E-01	3.417E+00	3.128E-03	8.289E+00	-8.635E-01	-1.60E+01	1.48E+03	-5.40E+02	0.283
22	4	22	5.772E-01	-3.764E-01	-3.417E+00	-3.128E-03	-4.945E+00	-9.498E-01	-1.88E+01	-8.83E+02	-5.94E+02	0.208
			-3.962E+00	3.465E-01	-1.876E+00	-6.443E-03	-2.539E-01	2.586E-03	-1.29E+02	-4.53E+01	1.62E+00	0.024
		62	-3.919E+00	3.465E-01	-1.876E+00	-6.443E-03	-4.437E+00	-9.321E-01	-1.28E+02	-7.92E+02	-5.83E+02	0.209
30	1	30	2.466E+00	7.614E-01	7.737E-01	-9.826E-04	-1.919E+00	2.365E+00	-8.03E+01	-3.43E+02	1.48E+03	0.264
			-2.136E+00	4.213E-02	-7.668E-01	2.005E-03	2.684E-03	4.495E-01	-6.96E+01	4.79E-01	2.81E+02	0.049
		70	-2.093E+00	4.213E-02	-7.668E-01	2.005E-03	-1.915E+00	1.442E+00	-6.82E+01	-3.42E+02	9.01E+02	0.182
30	2	30	2.179E+00	-4.213E-02	7.668E-01	-2.005E-03	-1.934E+00	-5.547E-01	-7.10E+01	-3.45E+02	-3.47E+02	0.106
			-2.423E+00	-7.614E-01	-7.737E-01	9.826E-04	-7.492E-04	-4.616E-01	-7.89E+01	-1.34E-01	-2.89E+02	0.051
		70	-2.380E+00	-7.614E-01	-7.737E-01	9.826E-04	-1.935E+00	3.440E-01	-7.75E+01	-3.45E+02	2.15E+02	0.089
30	3	30	3.999E+00	3.928E-01	2.775E+00	4.004E-03	2.154E+00	1.054E+00	-1.30E+02	3.85E+02	6.59E+02	0.163
			-6.026E-01	-3.265E-01	1.235E+00	6.991E-03	9.388E-01	6.053E-02	-1.96E+01	1.68E+02	3.78E+01	0.031
		70	-5.596E-01	-3.265E-01	1.235E+00	6.991E-03	4.021E+00	9.153E-01	-1.82E+01	7.18E+02	5.72E+02	0.182
30	4	30	6.456E-01	3.265E-01	-1.235E+00	-6.991E-03	-6.007E+00	7.565E-01	-2.10E+01	-1.07E+03	4.73E+02	0.218
			-3.956E+00	-3.928E-01	-2.775E+00	-4.004E-03	-9.369E-01	-7.270E-02	-1.29E+02	-1.67E+02	-4.54E+01	0.047
		70	-3.913E+00	-3.928E-01	-2.775E+00	-4.004E-03	-7.870E+00	8.708E-01	-1.27E+02	-1.41E+03	5.44E+02	0.288
31	1	31	6.536E-01	0.000E+00	0.000E+00	8.194E-03	0.000E+00	0.000E+00	-5.03E+01	0.00E+00	0.00E+00	0.007
			4.396E-01	0.000E+00	0.000E+00	-7.297E-03	0.000E+00	0.000E+00	3.38E+01	0.00E+00	0.00E+00	0.005
		71	4.579E-01	0.000E+00	0.000E+00	-7.297E-03	0.000E+00	0.000E+00	3.52E+01	0.00E+00	0.00E+00	0.005
31	2	31	-4.214E-01	0.000E+00	0.000E+00	7.297E-03	0.000E+00	0.000E+00	3.24E+01	0.00E+00	0.00E+00	0.005

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			-6.354E-01	0.000E+00	0.000E+00	-8.194E-03	0.000E+00	0.000E+00	-4.89E+01	0.00E+00	0.00E+00	0.007
		71	-6.172E-01	0.000E+00	0.000E+00	-8.194E-03	0.000E+00	0.000E+00	-4.75E+01	0.00E+00	0.00E+00	0.007
31	3	31	2.733E-01	0.000E+00	0.000E+00	1.351E-02	0.000E+00	0.000E+00	-2.10E+01	0.00E+00	0.00E+00	0.003
			5.936E-02	0.000E+00	0.000E+00	-1.978E-03	0.000E+00	0.000E+00	4.57E+00	0.00E+00	0.00E+00	0.001
		71	7.758E-02	0.000E+00	0.000E+00	-1.978E-03	0.000E+00	0.000E+00	5.97E+00	0.00E+00	0.00E+00	0.001
31	4	31	-4.114E-02	0.000E+00	0.000E+00	1.978E-03	0.000E+00	0.000E+00	3.16E+00	0.00E+00	0.00E+00	0.000
			-2.551E-01	0.000E+00	0.000E+00	-1.351E-02	0.000E+00	0.000E+00	-1.96E+01	0.00E+00	0.00E+00	0.003
		71	-2.369E-01	0.000E+00	0.000E+00	-1.351E-02	0.000E+00	0.000E+00	-1.82E+01	0.00E+00	0.00E+00	0.003
32	1	32	4.912E-01	0.000E+00	0.000E+00	-8.347E-03	0.000E+00	0.000E+00	-3.78E+01	0.00E+00	0.00E+00	0.005
			-2.114E-01	0.000E+00	0.000E+00	8.848E-03	0.000E+00	0.000E+00	-1.63E+01	0.00E+00	0.00E+00	0.002
		72	-1.932E-01	0.000E+00	0.000E+00	8.848E-03	0.000E+00	0.000E+00	-1.49E+01	0.00E+00	0.00E+00	0.002
32	2	32	2.297E-01	0.000E+00	0.000E+00	-8.848E-03	0.000E+00	0.000E+00	-1.77E+01	0.00E+00	0.00E+00	0.002
			-4.730E-01	0.000E+00	0.000E+00	8.347E-03	0.000E+00	0.000E+00	-3.64E+01	0.00E+00	0.00E+00	0.005
		72	-4.548E-01	0.000E+00	0.000E+00	8.347E-03	0.000E+00	0.000E+00	-3.50E+01	0.00E+00	0.00E+00	0.005
32	3	32	4.789E-01	0.000E+00	0.000E+00	-3.449E-03	0.000E+00	0.000E+00	-3.68E+01	0.00E+00	0.00E+00	0.005
			-2.238E-01	0.000E+00	0.000E+00	1.375E-02	0.000E+00	0.000E+00	-1.72E+01	0.00E+00	0.00E+00	0.002
		72	-2.055E-01	0.000E+00	0.000E+00	1.375E-02	0.000E+00	0.000E+00	-1.58E+01	0.00E+00	0.00E+00	0.002
32	4	32	2.420E-01	0.000E+00	0.000E+00	-1.375E-02	0.000E+00	0.000E+00	-1.86E+01	0.00E+00	0.00E+00	0.003
			-4.607E-01	0.000E+00	0.000E+00	3.449E-03	0.000E+00	0.000E+00	-3.54E+01	0.00E+00	0.00E+00	0.005
		72	-4.425E-01	0.000E+00	0.000E+00	3.449E-03	0.000E+00	0.000E+00	-3.40E+01	0.00E+00	0.00E+00	0.005
33	1	33	-3.232E+00	0.000E+00	0.000E+00	6.552E-03	0.000E+00	0.000E+00	2.49E+02	0.00E+00	0.00E+00	0.035
			3.393E+00	0.000E+00	0.000E+00	-6.278E-03	0.000E+00	0.000E+00	2.61E+02	0.00E+00	0.00E+00	0.036
		73	3.411E+00	0.000E+00	0.000E+00	-6.278E-03	0.000E+00	0.000E+00	2.62E+02	0.00E+00	0.00E+00	0.036
33	2	33	-3.374E+00	0.000E+00	0.000E+00	6.278E-03	0.000E+00	0.000E+00	2.60E+02	0.00E+00	0.00E+00	0.036
			3.250E+00	0.000E+00	0.000E+00	-6.552E-03	0.000E+00	0.000E+00	2.50E+02	0.00E+00	0.00E+00	0.035
		73	3.268E+00	0.000E+00	0.000E+00	-6.552E-03	0.000E+00	0.000E+00	2.51E+02	0.00E+00	0.00E+00	0.035
33	3	33	-3.186E+00	0.000E+00	0.000E+00	9.960E-03	0.000E+00	0.000E+00	2.45E+02	0.00E+00	0.00E+00	0.034
			3.439E+00	0.000E+00	0.000E+00	-2.870E-03	0.000E+00	0.000E+00	2.65E+02	0.00E+00	0.00E+00	0.037
		73	3.457E+00	0.000E+00	0.000E+00	-2.870E-03	0.000E+00	0.000E+00	2.66E+02	0.00E+00	0.00E+00	0.037
33	4	33	-3.421E+00	0.000E+00	0.000E+00	2.870E-03	0.000E+00	0.000E+00	2.63E+02	0.00E+00	0.00E+00	0.037
			3.204E+00	0.000E+00	0.000E+00	-9.960E-03	0.000E+00	0.000E+00	2.46E+02	0.00E+00	0.00E+00	0.034
		73	3.222E+00	0.000E+00	0.000E+00	-9.960E-03	0.000E+00	0.000E+00	2.48E+02	0.00E+00	0.00E+00	0.034
34	1	34	3.594E-01	0.000E+00	0.000E+00	-3.713E-03	0.000E+00	0.000E+00	-2.76E+01	0.00E+00	0.00E+00	0.004
			-1.875E-01	0.000E+00	0.000E+00	4.216E-03	0.000E+00	0.000E+00	-1.44E+01	0.00E+00	0.00E+00	0.002
		74	-1.693E-01	0.000E+00	0.000E+00	4.216E-03	0.000E+00	0.000E+00	-1.30E+01	0.00E+00	0.00E+00	0.002
34	2	34	2.057E-01	0.000E+00	0.000E+00	-4.216E-03	0.000E+00	0.000E+00	-1.58E+01	0.00E+00	0.00E+00	0.002
			-3.412E-01	0.000E+00	0.000E+00	3.713E-03	0.000E+00	0.000E+00	-2.62E+01	0.00E+00	0.00E+00	0.004
		74	-3.230E-01	0.000E+00	0.000E+00	3.713E-03	0.000E+00	0.000E+00	-2.48E+01	0.00E+00	0.00E+00	0.003
34	3	34	4.922E-01	0.000E+00	0.000E+00	-2.023E-03	0.000E+00	0.000E+00	-3.79E+01	0.00E+00	0.00E+00	0.005
			-5.467E-02	0.000E+00	0.000E+00	5.905E-03	0.000E+00	0.000E+00	-4.21E+00	0.00E+00	0.00E+00	0.001
		74	-3.646E-02	0.000E+00	0.000E+00	5.905E-03	0.000E+00	0.000E+00	-2.80E+00	0.00E+00	0.00E+00	0.000
34	4	34	7.289E-02	0.000E+00	0.000E+00	-5.905E-03	0.000E+00	0.000E+00	-5.61E+00	0.00E+00	0.00E+00	0.001
			-4.740E-01	0.000E+00	0.000E+00	2.023E-03	0.000E+00	0.000E+00	-3.65E+01	0.00E+00	0.00E+00	0.005
		74	-4.558E-01	0.000E+00	0.000E+00	2.023E-03	0.000E+00	0.000E+00	-3.51E+01	0.00E+00	0.00E+00	0.005
35	1	35	-1.289E-01	0.000E+00	0.000E+00	2.692E-03	0.000E+00	0.000E+00	9.92E+00	0.00E+00	0.00E+00	0.001
			2.542E-01	0.000E+00	0.000E+00	-2.350E-03	0.000E+00	0.000E+00	1.96E+01	0.00E+00	0.00E+00	0.003

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		75	2.724E-01	0.000E+00	0.000E+00	-2.350E-03	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
35	2	35	-2.360E-01	0.000E+00	0.000E+00	2.350E-03	0.000E+00	0.000E+00	1.82E+01	0.00E+00	0.00E+00	0.003
			1.471E-01	0.000E+00	0.000E+00	-2.692E-03	0.000E+00	0.000E+00	1.13E+01	0.00E+00	0.00E+00	0.002
		75	1.653E-01	0.000E+00	0.000E+00	-2.692E-03	0.000E+00	0.000E+00	1.27E+01	0.00E+00	0.00E+00	0.002
35	3	35	3.035E-02	0.000E+00	0.000E+00	3.706E-03	0.000E+00	0.000E+00	-2.33E+00	0.00E+00	0.00E+00	0.000
			4.134E-01	0.000E+00	0.000E+00	-1.336E-03	0.000E+00	0.000E+00	3.18E+01	0.00E+00	0.00E+00	0.004
		75	4.316E-01	0.000E+00	0.000E+00	-1.336E-03	0.000E+00	0.000E+00	3.32E+01	0.00E+00	0.00E+00	0.005
35	4	35	-3.952E-01	0.000E+00	0.000E+00	1.336E-03	0.000E+00	0.000E+00	3.04E+01	0.00E+00	0.00E+00	0.004
			-1.214E-02	0.000E+00	0.000E+00	-3.706E-03	0.000E+00	0.000E+00	-9.34E-01	0.00E+00	0.00E+00	0.000
		75	6.081E-03	0.000E+00	0.000E+00	-3.706E-03	0.000E+00	0.000E+00	4.68E-01	0.00E+00	0.00E+00	0.000
36	1	36	3.579E+00	0.000E+00	0.000E+00	3.207E-04	0.000E+00	0.000E+00	-2.75E+02	0.00E+00	0.00E+00	0.038
			-3.227E+00	0.000E+00	0.000E+00	3.126E-04	0.000E+00	0.000E+00	-2.48E+02	0.00E+00	0.00E+00	0.034
		76	-3.208E+00	0.000E+00	0.000E+00	3.126E-04	0.000E+00	0.000E+00	-2.47E+02	0.00E+00	0.00E+00	0.034
36	2	36	3.245E+00	0.000E+00	0.000E+00	-3.126E-04	0.000E+00	0.000E+00	-2.50E+02	0.00E+00	0.00E+00	0.035
			-3.561E+00	0.000E+00	0.000E+00	-3.207E-04	0.000E+00	0.000E+00	-2.74E+02	0.00E+00	0.00E+00	0.038
		76	-3.543E+00	0.000E+00	0.000E+00	-3.207E-04	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
36	3	36	3.715E+00	0.000E+00	0.000E+00	6.120E-04	0.000E+00	0.000E+00	-2.86E+02	0.00E+00	0.00E+00	0.040
			-3.091E+00	0.000E+00	0.000E+00	6.040E-04	0.000E+00	0.000E+00	-2.38E+02	0.00E+00	0.00E+00	0.033
		76	-3.073E+00	0.000E+00	0.000E+00	6.040E-04	0.000E+00	0.000E+00	-2.36E+02	0.00E+00	0.00E+00	0.033
36	4	36	3.110E+00	0.000E+00	0.000E+00	-6.040E-04	0.000E+00	0.000E+00	-2.39E+02	0.00E+00	0.00E+00	0.033
			-3.696E+00	0.000E+00	0.000E+00	-6.120E-04	0.000E+00	0.000E+00	-2.84E+02	0.00E+00	0.00E+00	0.039
		76	-3.678E+00	0.000E+00	0.000E+00	-6.120E-04	0.000E+00	0.000E+00	-2.83E+02	0.00E+00	0.00E+00	0.039
37	1	37	-1.448E-01	0.000E+00	0.000E+00	-2.245E-03	0.000E+00	0.000E+00	1.11E+01	0.00E+00	0.00E+00	0.002
			2.383E-01	0.000E+00	0.000E+00	2.782E-03	0.000E+00	0.000E+00	1.83E+01	0.00E+00	0.00E+00	0.003
		77	2.565E-01	0.000E+00	0.000E+00	2.782E-03	0.000E+00	0.000E+00	1.97E+01	0.00E+00	0.00E+00	0.003
37	2	37	-2.201E-01	0.000E+00	0.000E+00	-2.782E-03	0.000E+00	0.000E+00	1.69E+01	0.00E+00	0.00E+00	0.002
			1.630E-01	0.000E+00	0.000E+00	2.245E-03	0.000E+00	0.000E+00	1.25E+01	0.00E+00	0.00E+00	0.002
		77	1.813E-01	0.000E+00	0.000E+00	2.245E-03	0.000E+00	0.000E+00	1.39E+01	0.00E+00	0.00E+00	0.002
37	3	37	3.257E-02	0.000E+00	0.000E+00	-3.557E-04	0.000E+00	0.000E+00	-2.51E+00	0.00E+00	0.00E+00	0.000
			4.157E-01	0.000E+00	0.000E+00	4.671E-03	0.000E+00	0.000E+00	3.20E+01	0.00E+00	0.00E+00	0.004
		77	4.339E-01	0.000E+00	0.000E+00	4.671E-03	0.000E+00	0.000E+00	3.34E+01	0.00E+00	0.00E+00	0.005
37	4	37	-3.975E-01	0.000E+00	0.000E+00	-4.671E-03	0.000E+00	0.000E+00	3.06E+01	0.00E+00	0.00E+00	0.004
			-1.435E-02	0.000E+00	0.000E+00	3.557E-04	0.000E+00	0.000E+00	-1.10E+00	0.00E+00	0.00E+00	0.000
		77	3.868E-03	0.000E+00	0.000E+00	3.557E-04	0.000E+00	0.000E+00	2.98E-01	0.00E+00	0.00E+00	0.000
38	1	38	3.228E-01	0.000E+00	0.000E+00	4.420E-03	0.000E+00	0.000E+00	-2.48E+01	0.00E+00	0.00E+00	0.003
			-2.240E-01	0.000E+00	0.000E+00	-3.521E-03	0.000E+00	0.000E+00	-1.72E+01	0.00E+00	0.00E+00	0.002
		78	-2.058E-01	0.000E+00	0.000E+00	-3.521E-03	0.000E+00	0.000E+00	-1.58E+01	0.00E+00	0.00E+00	0.002
38	2	38	2.422E-01	0.000E+00	0.000E+00	3.521E-03	0.000E+00	0.000E+00	-1.86E+01	0.00E+00	0.00E+00	0.003
			-3.046E-01	0.000E+00	0.000E+00	-4.420E-03	0.000E+00	0.000E+00	-2.34E+01	0.00E+00	0.00E+00	0.003
		78	-2.864E-01	0.000E+00	0.000E+00	-4.420E-03	0.000E+00	0.000E+00	-2.20E+01	0.00E+00	0.00E+00	0.003
38	3	38	4.976E-01	0.000E+00	0.000E+00	6.705E-03	0.000E+00	0.000E+00	-3.83E+01	0.00E+00	0.00E+00	0.005
			-4.924E-02	0.000E+00	0.000E+00	-1.236E-03	0.000E+00	0.000E+00	-3.79E+00	0.00E+00	0.00E+00	0.001
		78	-3.103E-02	0.000E+00	0.000E+00	-1.236E-03	0.000E+00	0.000E+00	-2.39E+00	0.00E+00	0.00E+00	0.000
38	4	38	6.746E-02	0.000E+00	0.000E+00	1.236E-03	0.000E+00	0.000E+00	-5.19E+00	0.00E+00	0.00E+00	0.001
			-4.793E-01	0.000E+00	0.000E+00	-6.705E-03	0.000E+00	0.000E+00	-3.69E+01	0.00E+00	0.00E+00	0.005
		78	-4.611E-01	0.000E+00	0.000E+00	-6.705E-03	0.000E+00	0.000E+00	-3.55E+01	0.00E+00	0.00E+00	0.005

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39	1	39	-3.231E+00	0.000E+00	0.000E+00	-6.101E-03	0.000E+00	0.000E+00	2.49E+02	0.00E+00	0.00E+00	0.035
			3.394E+00	0.000E+00	0.000E+00	6.721E-03	0.000E+00	0.000E+00	2.61E+02	0.00E+00	0.00E+00	0.036
		79	3.412E+00	0.000E+00	0.000E+00	6.721E-03	0.000E+00	0.000E+00	2.62E+02	0.00E+00	0.00E+00	0.036
39	2	39	-3.376E+00	0.000E+00	0.000E+00	-6.721E-03	0.000E+00	0.000E+00	2.60E+02	0.00E+00	0.00E+00	0.036
			3.249E+00	0.000E+00	0.000E+00	6.101E-03	0.000E+00	0.000E+00	2.50E+02	0.00E+00	0.00E+00	0.035
		79	3.267E+00	0.000E+00	0.000E+00	6.101E-03	0.000E+00	0.000E+00	2.51E+02	0.00E+00	0.00E+00	0.035
39	3	39	-3.183E+00	0.000E+00	0.000E+00	-2.266E-03	0.000E+00	0.000E+00	2.45E+02	0.00E+00	0.00E+00	0.034
			3.441E+00	0.000E+00	0.000E+00	1.056E-02	0.000E+00	0.000E+00	2.65E+02	0.00E+00	0.00E+00	0.037
		79	3.460E+00	0.000E+00	0.000E+00	1.056E-02	0.000E+00	0.000E+00	2.66E+02	0.00E+00	0.00E+00	0.037
39	4	39	-3.423E+00	0.000E+00	0.000E+00	-1.056E-02	0.000E+00	0.000E+00	2.63E+02	0.00E+00	0.00E+00	0.037
			3.201E+00	0.000E+00	0.000E+00	2.266E-03	0.000E+00	0.000E+00	2.46E+02	0.00E+00	0.00E+00	0.034
		79	3.219E+00	0.000E+00	0.000E+00	2.266E-03	0.000E+00	0.000E+00	2.48E+02	0.00E+00	0.00E+00	0.034
40	1	40	3.849E-01	0.000E+00	0.000E+00	9.201E-03	0.000E+00	0.000E+00	-2.96E+01	0.00E+00	0.00E+00	0.004
			-3.175E-01	0.000E+00	0.000E+00	-7.995E-03	0.000E+00	0.000E+00	-2.44E+01	0.00E+00	0.00E+00	0.003
		80	-2.993E-01	0.000E+00	0.000E+00	-7.995E-03	0.000E+00	0.000E+00	-2.30E+01	0.00E+00	0.00E+00	0.003
40	2	40	3.357E-01	0.000E+00	0.000E+00	7.995E-03	0.000E+00	0.000E+00	-2.58E+01	0.00E+00	0.00E+00	0.004
			-3.667E-01	0.000E+00	0.000E+00	-9.201E-03	0.000E+00	0.000E+00	-2.82E+01	0.00E+00	0.00E+00	0.004
		80	-3.485E-01	0.000E+00	0.000E+00	-9.201E-03	0.000E+00	0.000E+00	-2.68E+01	0.00E+00	0.00E+00	0.004
40	3	40	4.950E-01	0.000E+00	0.000E+00	1.395E-02	0.000E+00	0.000E+00	-3.81E+01	0.00E+00	0.00E+00	0.005
			-2.074E-01	0.000E+00	0.000E+00	-3.251E-03	0.000E+00	0.000E+00	-1.60E+01	0.00E+00	0.00E+00	0.002
		80	-1.892E-01	0.000E+00	0.000E+00	-3.251E-03	0.000E+00	0.000E+00	-1.46E+01	0.00E+00	0.00E+00	0.002
40	4	40	2.256E-01	0.000E+00	0.000E+00	3.251E-03	0.000E+00	0.000E+00	-1.74E+01	0.00E+00	0.00E+00	0.002
			-4.768E-01	0.000E+00	0.000E+00	-1.395E-02	0.000E+00	0.000E+00	-3.67E+01	0.00E+00	0.00E+00	0.005
		80	-4.586E-01	0.000E+00	0.000E+00	-1.395E-02	0.000E+00	0.000E+00	-3.53E+01	0.00E+00	0.00E+00	0.005
41	1	41	1.372E-01	0.000E+00	0.000E+00	-7.505E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
			-7.801E-02	0.000E+00	0.000E+00	7.990E-03	0.000E+00	0.000E+00	-6.00E+00	0.00E+00	0.00E+00	0.001
		81	-5.980E-02	0.000E+00	0.000E+00	7.990E-03	0.000E+00	0.000E+00	-4.60E+00	0.00E+00	0.00E+00	0.001
41	2	41	9.623E-02	0.000E+00	0.000E+00	-7.990E-03	0.000E+00	0.000E+00	-7.40E+00	0.00E+00	0.00E+00	0.001
			-1.190E-01	0.000E+00	0.000E+00	7.505E-03	0.000E+00	0.000E+00	-9.15E+00	0.00E+00	0.00E+00	0.001
		81	-1.008E-01	0.000E+00	0.000E+00	7.505E-03	0.000E+00	0.000E+00	-7.75E+00	0.00E+00	0.00E+00	0.001
41	3	41	1.932E-01	0.000E+00	0.000E+00	-2.015E-03	0.000E+00	0.000E+00	-1.49E+01	0.00E+00	0.00E+00	0.002
			-2.198E-02	0.000E+00	0.000E+00	1.348E-02	0.000E+00	0.000E+00	-1.69E+00	0.00E+00	0.00E+00	0.000
		81	-3.767E-03	0.000E+00	0.000E+00	1.348E-02	0.000E+00	0.000E+00	-2.90E-01	0.00E+00	0.00E+00	0.000
41	4	41	4.020E-02	0.000E+00	0.000E+00	-1.348E-02	0.000E+00	0.000E+00	-3.09E+00	0.00E+00	0.00E+00	0.000
			-1.750E-01	0.000E+00	0.000E+00	2.015E-03	0.000E+00	0.000E+00	-1.35E+01	0.00E+00	0.00E+00	0.002
		81	-1.568E-01	0.000E+00	0.000E+00	2.015E-03	0.000E+00	0.000E+00	-1.21E+01	0.00E+00	0.00E+00	0.002
42	1	42	2.333E+00	-3.379E-01	7.772E-01	1.861E-03	-1.911E+00	-8.500E-01	-7.60E+01	-3.41E+02	-5.31E+02	0.132
			-2.268E+00	3.804E-01	-7.625E-01	-1.101E-03	5.398E-03	5.867E-03	-7.39E+01	9.64E-01	3.67E+00	0.011
		82	-2.225E+00	3.804E-01	-7.625E-01	-1.101E-03	-1.901E+00	-8.394E-01	-7.25E+01	-3.39E+02	-5.25E+02	0.130
42	2	42	2.311E+00	-3.804E-01	7.625E-01	1.101E-03	-1.939E+00	-9.570E-01	-7.53E+01	-3.46E+02	-5.98E+02	0.142
			-2.290E+00	3.379E-01	-7.772E-01	-1.861E-03	-3.905E-03	5.259E-03	-7.46E+01	-6.97E-01	3.29E+00	0.011
		82	-2.247E+00	3.379E-01	-7.772E-01	-1.861E-03	-1.947E+00	-9.453E-01	-7.32E+01	-3.48E+02	-5.91E+02	0.141
42	3	42	4.049E+00	-3.277E-01	2.835E+00	5.664E-03	2.341E+00	-8.224E-01	-1.32E+02	4.18E+02	-5.14E+02	0.148
			-5.527E-01	3.906E-01	1.295E+00	2.702E-03	9.022E-01	8.012E-03	-1.80E+01	1.61E+02	5.01E+00	0.026
		82	-5.096E-01	3.906E-01	1.295E+00	2.702E-03	4.135E+00	-8.161E-01	-1.66E+01	7.38E+02	-5.10E+02	0.176

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42	4	42	5.957E-01	-3.906E-01	-1.295E+00	-2.702E-03	-6.192E+00	-9.846E-01	-1.94E+01	-1.11E+03	-6.15E+02	0.242
			-4.006E+00	3.277E-01	-2.835E+00	-5.664E-03	-9.008E-01	3.113E-03	-1.30E+02	-1.61E+02	1.95E+00	0.041
		82	-3.963E+00	3.277E-01	-2.835E+00	-5.664E-03	-7.983E+00	-9.686E-01	-1.29E+02	-1.43E+03	-6.05E+02	0.300
50	1	10	2.072E+01	2.368E-02	1.574E-19	1.110E-02	0.000E+00	0.000E+00	-1.59E+03	0.00E+00	0.00E+00	0.221
			-1.945E+01	1.030E-16	1.307E-19	6.863E-03	6.454E-19	4.855E-02	-1.50E+03	2.31E-15	5.90E+01	0.216
		51	-1.943E+01	2.368E-02	1.307E-19	6.863E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.208
50	2	10	1.946E+01	2.368E-02	-1.307E-19	-6.863E-03	0.000E+00	0.000E+00	-1.50E+03	0.00E+00	0.00E+00	0.208
			-2.071E+01	8.404E-17	-1.574E-19	-1.110E-02	-5.361E-19	4.855E-02	-1.59E+03	-1.91E-15	5.90E+01	0.229
		51	-2.069E+01	2.368E-02	-1.574E-19	-1.110E-02	0.000E+00	0.000E+00	-1.59E+03	0.00E+00	0.00E+00	0.221
50	3	10	2.055E+01	2.368E-02	6.235E-17	3.651E-03	0.000E+00	0.000E+00	-1.58E+03	0.00E+00	0.00E+00	0.219
			-1.963E+01	9.555E-17	6.233E-17	-5.860E-04	2.557E-16	4.855E-02	-1.51E+03	9.13E-13	5.90E+01	0.218
		51	-1.961E+01	2.368E-02	6.233E-17	-5.860E-04	0.000E+00	0.000E+00	-1.51E+03	0.00E+00	0.00E+00	0.209
50	4	10	1.964E+01	2.368E-02	-6.233E-17	5.860E-04	0.000E+00	0.000E+00	-1.51E+03	0.00E+00	0.00E+00	0.210
			-2.053E+01	9.150E-17	-6.235E-17	-3.651E-03	-2.556E-16	4.855E-02	-1.58E+03	-9.13E-13	5.90E+01	0.227
		51	-2.051E+01	2.368E-02	-6.235E-17	-3.651E-03	0.000E+00	0.000E+00	-1.58E+03	0.00E+00	0.00E+00	0.219
51	1	12	-1.958E+01	2.368E-02	7.277E-20	-4.131E-04	0.000E+00	0.000E+00	1.51E+03	0.00E+00	0.00E+00	0.209
			2.050E+01	-8.131E-17	1.566E-19	4.333E-03	2.984E-19	4.855E-02	1.58E+03	1.07E-15	5.90E+01	0.227
		51	2.052E+01	2.368E-02	1.566E-19	4.333E-03	0.000E+00	0.000E+00	1.58E+03	0.00E+00	0.00E+00	0.219
51	2	12	-2.048E+01	2.368E-02	-1.566E-19	-4.333E-03	0.000E+00	0.000E+00	1.58E+03	0.00E+00	0.00E+00	0.219
			1.959E+01	-9.394E-17	-7.277E-20	4.131E-04	-6.421E-19	4.855E-02	1.51E+03	-2.29E-15	5.90E+01	0.218
		51	1.961E+01	2.368E-02	-7.277E-20	4.131E-04	0.000E+00	0.000E+00	1.51E+03	0.00E+00	0.00E+00	0.210
51	3	12	-1.940E+01	2.368E-02	5.383E-17	-6.979E-04	0.000E+00	0.000E+00	1.49E+03	0.00E+00	0.00E+00	0.207
			2.068E+01	-8.531E-17	5.391E-17	4.048E-03	2.207E-16	4.855E-02	1.59E+03	7.88E-13	5.90E+01	0.229
		51	2.070E+01	2.368E-02	5.391E-17	4.048E-03	0.000E+00	0.000E+00	1.59E+03	0.00E+00	0.00E+00	0.221
51	4	12	-2.066E+01	2.368E-02	-5.391E-17	-4.048E-03	0.000E+00	0.000E+00	1.59E+03	0.00E+00	0.00E+00	0.221
			1.942E+01	-8.993E-17	-5.383E-17	6.979E-04	-2.211E-16	4.855E-02	1.49E+03	-7.89E-13	5.90E+01	0.216
		51	1.944E+01	2.368E-02	-5.383E-17	6.979E-04	0.000E+00	0.000E+00	1.50E+03	0.00E+00	0.00E+00	0.208
52	1	12	1.942E+01	2.368E-02	1.892E-19	-7.575E-04	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
			-1.845E+01	8.132E-17	1.294E-19	4.595E-03	7.758E-19	4.855E-02	-1.42E+03	2.77E-15	5.90E+01	0.205
		53	-1.843E+01	2.368E-02	1.294E-19	4.595E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
52	2	12	1.847E+01	2.368E-02	-1.294E-19	-4.595E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
			-1.940E+01	6.982E-17	-1.892E-19	7.575E-04	-5.305E-19	4.855E-02	-1.49E+03	-1.89E-15	5.90E+01	0.215
		53	-1.938E+01	2.368E-02	-1.892E-19	7.575E-04	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
52	3	12	1.933E+01	2.368E-02	6.409E-17	-1.527E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.206
			-1.854E+01	7.648E-17	6.403E-17	3.825E-03	2.628E-16	4.855E-02	-1.43E+03	9.39E-13	5.90E+01	0.206
		53	-1.852E+01	2.368E-02	6.403E-17	3.825E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.198
52	4	12	1.856E+01	2.368E-02	-6.403E-17	-3.825E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.198
			-1.931E+01	7.466E-17	-6.409E-17	1.527E-03	-2.625E-16	4.855E-02	-1.49E+03	-9.38E-13	5.90E+01	0.214
		53	-1.929E+01	2.368E-02	-6.409E-17	1.527E-03	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.206
53	1	14	-7.261E+00	2.368E-02	1.402E-19	-3.808E-04	0.000E+00	0.000E+00	5.59E+02	0.00E+00	0.00E+00	0.078
			7.900E+00	-5.156E-17	1.835E-19	1.084E-03	5.748E-19	4.855E-02	6.08E+02	2.05E-15	5.90E+01	0.093
		53	7.918E+00	2.368E-02	1.835E-19	1.084E-03	0.000E+00	0.000E+00	6.09E+02	0.00E+00	0.00E+00	0.085
53	2	14	-7.881E+00	2.368E-02	-1.835E-19	-1.084E-03	0.000E+00	0.000E+00	6.06E+02	0.00E+00	0.00E+00	0.084
			7.279E+00	-5.748E-17	-1.402E-19	3.808E-04	-7.523E-19	4.855E-02	5.60E+02	-2.69E-15	5.90E+01	0.086
		53	7.297E+00	2.368E-02	-1.402E-19	3.808E-04	0.000E+00	0.000E+00	5.61E+02	0.00E+00	0.00E+00	0.078
53	3	14	-7.127E+00	2.368E-02	5.778E-17	4.928E-04	0.000E+00	0.000E+00	5.48E+02	0.00E+00	0.00E+00	0.076

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			8.034E+00	-5.230E-17	5.782E-17	1.957E-03	2.369E-16	4.855E-02	6.18E+02	8.46E-13	5.90E+01	0.094
		53	8.052E+00	2.368E-02	5.782E-17	1.957E-03	0.000E+00	0.000E+00	6.19E+02	0.00E+00	0.00E+00	0.086
53	4	14	-8.016E+00	2.368E-02	-5.782E-17	-1.957E-03	0.000E+00	0.000E+00	6.17E+02	0.00E+00	0.00E+00	0.086
			7.145E+00	-5.674E-17	-5.778E-17	-4.928E-04	-2.371E-16	4.855E-02	5.50E+02	-8.47E-13	5.90E+01	0.085
		53	7.163E+00	2.368E-02	-5.778E-17	-4.928E-04	0.000E+00	0.000E+00	5.51E+02	0.00E+00	0.00E+00	0.077
54	1	14	7.205E+00	2.368E-02	2.088E-19	4.184E-04	0.000E+00	0.000E+00	-5.54E+02	0.00E+00	0.00E+00	0.077
			-6.178E+00	3.700E-17	1.825E-19	7.936E-04	8.560E-19	4.855E-02	-4.75E+02	3.06E-15	5.90E+01	0.074
		55	-6.159E+00	2.368E-02	1.825E-19	7.936E-04	0.000E+00	0.000E+00	-4.74E+02	0.00E+00	0.00E+00	0.066
54	2	14	6.196E+00	2.368E-02	-1.825E-19	-7.936E-04	0.000E+00	0.000E+00	-4.77E+02	0.00E+00	0.00E+00	0.066
			-7.187E+00	3.285E-17	-2.088E-19	-4.184E-04	-7.485E-19	4.855E-02	-5.53E+02	-2.67E-15	5.90E+01	0.085
		55	-7.169E+00	2.368E-02	-2.088E-19	-4.184E-04	0.000E+00	0.000E+00	-5.51E+02	0.00E+00	0.00E+00	0.077
54	3	14	7.033E+00	2.368E-02	6.277E-17	9.584E-04	0.000E+00	0.000E+00	-5.41E+02	0.00E+00	0.00E+00	0.075
			-6.349E+00	3.597E-17	6.274E-17	1.334E-03	2.574E-16	4.855E-02	-4.88E+02	9.19E-13	5.90E+01	0.076
		55	-6.331E+00	2.368E-02	6.274E-17	1.334E-03	0.000E+00	0.000E+00	-4.87E+02	0.00E+00	0.00E+00	0.068
54	4	14	6.367E+00	2.368E-02	-6.274E-17	-1.334E-03	0.000E+00	0.000E+00	-4.90E+02	0.00E+00	0.00E+00	0.068
			-7.015E+00	3.389E-17	-6.277E-17	-9.584E-04	-2.573E-16	4.855E-02	-5.40E+02	-9.19E-13	5.90E+01	0.083
		55	-6.997E+00	2.368E-02	-6.277E-17	-9.584E-04	0.000E+00	0.000E+00	-5.38E+02	0.00E+00	0.00E+00	0.075
55	1	16	-5.233E+00	2.368E-02	1.550E-19	3.822E-04	0.000E+00	0.000E+00	4.03E+02	0.00E+00	0.00E+00	0.056
			5.929E+00	-1.279E-17	1.580E-19	4.152E-04	6.357E-19	4.855E-02	4.56E+02	2.27E-15	5.90E+01	0.072
		55	5.947E+00	2.368E-02	1.580E-19	4.152E-04	0.000E+00	0.000E+00	4.57E+02	0.00E+00	0.00E+00	0.064
55	2	16	-5.911E+00	2.368E-02	-1.580E-19	-4.152E-04	0.000E+00	0.000E+00	4.55E+02	0.00E+00	0.00E+00	0.063
			5.251E+00	-1.391E-17	-1.550E-19	-3.822E-04	-6.478E-19	4.855E-02	4.04E+02	-2.31E-15	5.90E+01	0.064
		55	5.269E+00	2.368E-02	-1.550E-19	-3.822E-04	0.000E+00	0.000E+00	4.05E+02	0.00E+00	0.00E+00	0.056
55	3	16	-5.133E+00	2.368E-02	6.049E-17	5.087E-04	0.000E+00	0.000E+00	3.95E+02	0.00E+00	0.00E+00	0.055
			6.030E+00	-1.160E-17	6.049E-17	5.417E-04	2.480E-16	4.855E-02	4.64E+02	8.86E-13	5.90E+01	0.073
		55	6.048E+00	2.368E-02	6.049E-17	5.417E-04	0.000E+00	0.000E+00	4.65E+02	0.00E+00	0.00E+00	0.065
55	4	16	-6.011E+00	2.368E-02	-6.049E-17	-5.417E-04	0.000E+00	0.000E+00	4.62E+02	0.00E+00	0.00E+00	0.064
			5.151E+00	-1.510E-17	-6.049E-17	-5.087E-04	-2.480E-16	4.855E-02	3.96E+02	-8.86E-13	5.90E+01	0.063
		55	5.169E+00	2.368E-02	-6.049E-17	-5.087E-04	0.000E+00	0.000E+00	3.98E+02	0.00E+00	0.00E+00	0.055
56	1	16	-4.801E+00	2.368E-02	2.158E-19	5.258E-04	0.000E+00	0.000E+00	3.69E+02	0.00E+00	0.00E+00	0.051
			6.362E+00	-1.204E-17	2.205E-19	4.908E-04	8.847E-19	4.855E-02	4.89E+02	3.16E-15	5.90E+01	0.076
		57	6.380E+00	2.368E-02	2.205E-19	4.908E-04	0.000E+00	0.000E+00	4.91E+02	0.00E+00	0.00E+00	0.068
56	2	16	-6.344E+00	2.368E-02	-2.205E-19	-4.908E-04	0.000E+00	0.000E+00	4.88E+02	0.00E+00	0.00E+00	0.068
			4.820E+00	-1.466E-17	-2.158E-19	-5.258E-04	-9.043E-19	4.855E-02	3.71E+02	-3.23E-15	5.90E+01	0.060
		57	4.838E+00	2.368E-02	-2.158E-19	-5.258E-04	0.000E+00	0.000E+00	3.72E+02	0.00E+00	0.00E+00	0.052
56	3	16	-5.024E+00	2.368E-02	5.984E-17	6.308E-04	0.000E+00	0.000E+00	3.86E+02	0.00E+00	0.00E+00	0.054
			6.139E+00	-1.150E-17	5.984E-17	5.958E-04	2.453E-16	4.855E-02	4.72E+02	8.76E-13	5.90E+01	0.074
		57	6.158E+00	2.368E-02	5.984E-17	5.958E-04	0.000E+00	0.000E+00	4.74E+02	0.00E+00	0.00E+00	0.066
56	4	16	-6.121E+00	2.368E-02	-5.984E-17	-5.958E-04	0.000E+00	0.000E+00	4.71E+02	0.00E+00	0.00E+00	0.065
			5.042E+00	-1.520E-17	-5.984E-17	-6.308E-04	-2.454E-16	4.855E-02	3.88E+02	-8.76E-13	5.90E+01	0.062
		57	5.060E+00	2.368E-02	-5.984E-17	-6.308E-04	0.000E+00	0.000E+00	3.89E+02	0.00E+00	0.00E+00	0.054
57	1	18	7.368E+00	2.368E-02	1.688E-19	6.919E-04	0.000E+00	0.000E+00	-5.67E+02	0.00E+00	0.00E+00	0.079
			-6.015E+00	3.804E-17	1.954E-19	3.153E-04	6.923E-19	4.855E-02	-4.63E+02	2.47E-15	5.90E+01	0.072
		57	-5.997E+00	2.368E-02	1.954E-19	3.153E-04	0.000E+00	0.000E+00	-4.61E+02	0.00E+00	0.00E+00	0.064
57	2	18	6.033E+00	2.368E-02	-1.954E-19	-3.153E-04	0.000E+00	0.000E+00	-4.64E+02	0.00E+00	0.00E+00	0.064
			-7.350E+00	3.182E-17	-1.688E-19	-6.919E-04	-8.013E-19	4.855E-02	-5.65E+02	-2.86E-15	5.90E+01	0.087

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		57	-7.332E+00	2.368E-02	-1.688E-19	-6.919E-04	0.000E+00	0.000E+00	-5.64E+02	0.00E+00	0.00E+00	0.078
57	3	18	6.938E+00	2.368E-02	6.285E-17	1.367E-03	0.000E+00	0.000E+00	-5.34E+02	0.00E+00	0.00E+00	0.074
			-6.446E+00	3.592E-17	6.288E-17	9.900E-04	2.577E-16	4.855E-02	-4.96E+02	9.20E-13	5.90E+01	0.077
		57	-6.428E+00	2.368E-02	6.288E-17	9.900E-04	0.000E+00	0.000E+00	-4.94E+02	0.00E+00	0.00E+00	0.069
57	4	18	6.464E+00	2.368E-02	-6.288E-17	-9.900E-04	0.000E+00	0.000E+00	-4.97E+02	0.00E+00	0.00E+00	0.069
			-6.919E+00	3.393E-17	-6.285E-17	-1.367E-03	-2.578E-16	4.855E-02	-5.32E+02	-9.21E-13	5.90E+01	0.082
		57	-6.901E+00	2.368E-02	-6.285E-17	-1.367E-03	0.000E+00	0.000E+00	-5.31E+02	0.00E+00	0.00E+00	0.074
58	1	18	-6.770E+00	2.368E-02	2.030E-19	1.581E-03	0.000E+00	0.000E+00	5.21E+02	0.00E+00	0.00E+00	0.072
			8.391E+00	-5.080E-17	1.747E-19	1.170E-04	8.325E-19	4.855E-02	6.45E+02	2.97E-15	5.90E+01	0.098
		59	8.409E+00	2.368E-02	1.747E-19	1.170E-04	0.000E+00	0.000E+00	6.47E+02	0.00E+00	0.00E+00	0.090
58	2	18	-8.373E+00	2.368E-02	-1.747E-19	-1.170E-04	0.000E+00	0.000E+00	6.44E+02	0.00E+00	0.00E+00	0.089
			6.789E+00	-5.824E-17	-2.030E-19	-1.581E-03	-7.161E-19	4.855E-02	5.22E+02	-2.56E-15	5.90E+01	0.081
		59	6.807E+00	2.368E-02	-2.030E-19	-1.581E-03	0.000E+00	0.000E+00	5.24E+02	0.00E+00	0.00E+00	0.073
58	3	18	-7.018E+00	2.368E-02	5.663E-17	1.885E-03	0.000E+00	0.000E+00	5.40E+02	0.00E+00	0.00E+00	0.075
			8.144E+00	-5.231E-17	5.660E-17	4.205E-04	2.322E-16	4.855E-02	6.26E+02	8.29E-13	5.90E+01	0.095
		59	8.162E+00	2.368E-02	5.660E-17	4.205E-04	0.000E+00	0.000E+00	6.28E+02	0.00E+00	0.00E+00	0.087
58	4	18	-8.126E+00	2.368E-02	-5.660E-17	-4.205E-04	0.000E+00	0.000E+00	6.25E+02	0.00E+00	0.00E+00	0.087
			7.036E+00	-5.673E-17	-5.663E-17	-1.885E-03	-2.321E-16	4.855E-02	5.41E+02	-8.29E-13	5.90E+01	0.083
		59	7.054E+00	2.368E-02	-5.663E-17	-1.885E-03	0.000E+00	0.000E+00	5.43E+02	0.00E+00	0.00E+00	0.075
59	1	20	1.992E+01	2.368E-02	1.672E-19	4.161E-03	0.000E+00	0.000E+00	-1.53E+03	0.00E+00	0.00E+00	0.213
			-1.795E+01	8.059E-17	2.235E-19	-1.190E-03	6.857E-19	4.855E-02	-1.38E+03	2.45E-15	5.90E+01	0.200
		59	-1.793E+01	2.368E-02	2.235E-19	-1.190E-03	0.000E+00	0.000E+00	-1.38E+03	0.00E+00	0.00E+00	0.192
59	2	20	1.796E+01	2.368E-02	-2.235E-19	1.190E-03	0.000E+00	0.000E+00	-1.38E+03	0.00E+00	0.00E+00	0.192
			-1.990E+01	7.056E-17	-1.672E-19	-4.161E-03	-9.166E-19	4.855E-02	-1.53E+03	-3.27E-15	5.90E+01	0.221
		59	-1.988E+01	2.368E-02	-1.672E-19	-4.161E-03	0.000E+00	0.000E+00	-1.53E+03	0.00E+00	0.00E+00	0.212
59	3	20	1.935E+01	2.368E-02	6.382E-17	3.740E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
			-1.851E+01	7.644E-17	6.388E-17	-1.611E-03	2.617E-16	4.855E-02	-1.42E+03	9.35E-13	5.90E+01	0.206
		59	-1.849E+01	2.368E-02	6.388E-17	-1.611E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.198
59	4	20	1.853E+01	2.368E-02	-6.388E-17	1.611E-03	0.000E+00	0.000E+00	-1.43E+03	0.00E+00	0.00E+00	0.198
			-1.933E+01	7.470E-17	-6.382E-17	-3.740E-03	-2.619E-16	4.855E-02	-1.49E+03	-9.35E-13	5.90E+01	0.215
		59	-1.932E+01	2.368E-02	-6.382E-17	-3.740E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.206
60	1	20	-1.897E+01	2.368E-02	2.189E-19	6.341E-03	0.000E+00	0.000E+00	1.46E+03	0.00E+00	0.00E+00	0.203
			2.111E+01	-8.219E-17	1.534E-19	1.601E-03	8.976E-19	4.855E-02	1.62E+03	3.21E-15	5.90E+01	0.234
		61	2.112E+01	2.368E-02	1.534E-19	1.601E-03	0.000E+00	0.000E+00	1.62E+03	0.00E+00	0.00E+00	0.226
60	2	20	-2.109E+01	2.368E-02	-1.534E-19	-1.601E-03	0.000E+00	0.000E+00	1.62E+03	0.00E+00	0.00E+00	0.225
			1.899E+01	-9.306E-17	-2.189E-19	-6.341E-03	-6.290E-19	4.855E-02	1.46E+03	-2.25E-15	5.90E+01	0.211
		61	1.901E+01	2.368E-02	-2.189E-19	-6.341E-03	0.000E+00	0.000E+00	1.46E+03	0.00E+00	0.00E+00	0.203
60	3	20	-1.931E+01	2.368E-02	5.246E-17	3.668E-03	0.000E+00	0.000E+00	1.49E+03	0.00E+00	0.00E+00	0.206
			2.077E+01	-8.556E-17	5.240E-17	-1.071E-03	2.151E-16	4.855E-02	1.60E+03	7.68E-13	5.90E+01	0.230
		61	2.079E+01	2.368E-02	5.240E-17	-1.071E-03	0.000E+00	0.000E+00	1.60E+03	0.00E+00	0.00E+00	0.222
60	4	20	-2.075E+01	2.368E-02	-5.240E-17	1.071E-03	0.000E+00	0.000E+00	1.60E+03	0.00E+00	0.00E+00	0.222
			1.933E+01	-8.968E-17	-5.246E-17	-3.668E-03	-2.148E-16	4.855E-02	1.49E+03	-7.67E-13	5.90E+01	0.215
		61	1.935E+01	2.368E-02	-5.246E-17	-3.668E-03	0.000E+00	0.000E+00	1.49E+03	0.00E+00	0.00E+00	0.207
61	1	22	2.109E+01	2.368E-02	1.402E-19	8.250E-03	0.000E+00	0.000E+00	-1.62E+03	0.00E+00	0.00E+00	0.225
			-1.908E+01	9.942E-17	1.665E-19	1.250E-02	5.747E-19	4.855E-02	-1.47E+03	2.05E-15	5.90E+01	0.212
		61	-1.907E+01	2.368E-02	1.665E-19	1.250E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204

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61	2	22	1.910E+01	2.368E-02	-1.665E-19	-1.250E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
			-2.107E+01	8.764E-17	-1.402E-19	-8.250E-03	-6.828E-19	4.855E-02	-1.62E+03	-2.44E-15	5.90E+01	0.233
		61	-2.105E+01	2.368E-02	-1.402E-19	-8.250E-03	0.000E+00	0.000E+00	-1.62E+03	0.00E+00	0.00E+00	0.225
61	3	22	2.067E+01	2.368E-02	6.228E-17	-1.019E-03	0.000E+00	0.000E+00	-1.59E+03	0.00E+00	0.00E+00	0.221
			-1.951E+01	9.501E-17	6.230E-17	3.228E-03	2.553E-16	4.855E-02	-1.50E+03	9.12E-13	5.90E+01	0.217
		61	-1.949E+01	2.368E-02	6.230E-17	3.228E-03	0.000E+00	0.000E+00	-1.50E+03	0.00E+00	0.00E+00	0.208
61	4	22	1.953E+01	2.368E-02	-6.230E-17	-3.228E-03	0.000E+00	0.000E+00	-1.50E+03	0.00E+00	0.00E+00	0.209
			-2.065E+01	9.205E-17	-6.228E-17	1.019E-03	-2.555E-16	4.855E-02	-1.59E+03	-9.12E-13	5.90E+01	0.229
		61	-2.063E+01	2.368E-02	-6.228E-17	1.019E-03	0.000E+00	0.000E+00	-1.59E+03	0.00E+00	0.00E+00	0.220
70	1	30	2.063E+01	2.368E-02	1.941E-19	1.349E-02	0.000E+00	0.000E+00	-1.59E+03	0.00E+00	0.00E+00	0.220
			-1.934E+01	1.029E-16	8.009E-20	6.101E-03	7.959E-19	4.855E-02	-1.49E+03	2.84E-15	5.90E+01	0.215
		71	-1.933E+01	2.368E-02	8.009E-20	6.101E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.206
70	2	30	1.936E+01	2.368E-02	-8.009E-20	-6.101E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
			-2.061E+01	8.393E-17	-1.941E-19	-1.349E-02	-3.284E-19	4.855E-02	-1.59E+03	-1.17E-15	5.90E+01	0.228
		71	-2.059E+01	2.368E-02	-1.941E-19	-1.349E-02	0.000E+00	0.000E+00	-1.58E+03	0.00E+00	0.00E+00	0.220
70	3	30	2.046E+01	2.368E-02	6.260E-17	1.515E-02	0.000E+00	0.000E+00	-1.57E+03	0.00E+00	0.00E+00	0.219
			-1.952E+01	9.483E-17	6.248E-17	7.767E-03	2.567E-16	4.855E-02	-1.50E+03	9.17E-13	5.90E+01	0.217
		71	-1.950E+01	2.368E-02	6.248E-17	7.767E-03	0.000E+00	0.000E+00	-1.50E+03	0.00E+00	0.00E+00	0.208
70	4	30	1.953E+01	2.368E-02	-6.248E-17	-7.767E-03	0.000E+00	0.000E+00	-1.50E+03	0.00E+00	0.00E+00	0.209
			-2.044E+01	9.202E-17	-6.260E-17	-1.515E-02	-2.562E-16	4.855E-02	-1.57E+03	-9.15E-13	5.90E+01	0.227
		71	-2.042E+01	2.368E-02	-6.260E-17	-1.515E-02	0.000E+00	0.000E+00	-1.57E+03	0.00E+00	0.00E+00	0.218
71	1	32	-1.968E+01	2.368E-02	7.999E-20	6.681E-03	0.000E+00	0.000E+00	1.51E+03	0.00E+00	0.00E+00	0.210
			2.060E+01	-8.128E-17	1.343E-19	2.309E-03	3.280E-19	4.855E-02	1.58E+03	1.17E-15	5.90E+01	0.228
		71	2.062E+01	2.368E-02	1.343E-19	2.309E-03	0.000E+00	0.000E+00	1.59E+03	0.00E+00	0.00E+00	0.220
71	2	32	-2.058E+01	2.368E-02	-1.343E-19	-2.309E-03	0.000E+00	0.000E+00	1.58E+03	0.00E+00	0.00E+00	0.220
			1.970E+01	-9.394E-17	-7.999E-20	-6.681E-03	-5.506E-19	4.855E-02	1.52E+03	-1.97E-15	5.90E+01	0.219
		71	1.972E+01	2.368E-02	-7.999E-20	-6.681E-03	0.000E+00	0.000E+00	1.52E+03	0.00E+00	0.00E+00	0.211
71	3	32	-1.945E+01	2.368E-02	5.386E-17	3.339E-03	0.000E+00	0.000E+00	1.50E+03	0.00E+00	0.00E+00	0.208
			2.083E+01	-8.593E-17	5.391E-17	-1.033E-03	2.208E-16	4.855E-02	1.60E+03	7.89E-13	5.90E+01	0.231
		71	2.085E+01	2.368E-02	5.391E-17	-1.033E-03	0.000E+00	0.000E+00	1.60E+03	0.00E+00	0.00E+00	0.223
71	4	32	-2.081E+01	2.368E-02	-5.391E-17	1.033E-03	0.000E+00	0.000E+00	1.60E+03	0.00E+00	0.00E+00	0.222
			1.947E+01	-8.929E-17	-5.386E-17	-3.339E-03	-2.211E-16	4.855E-02	1.50E+03	-7.89E-13	5.90E+01	0.216
		71	1.949E+01	2.368E-02	-5.386E-17	-3.339E-03	0.000E+00	0.000E+00	1.50E+03	0.00E+00	0.00E+00	0.208
72	1	32	1.931E+01	2.368E-02	1.712E-19	1.804E-03	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.206
			-1.836E+01	8.124E-17	1.409E-19	-1.490E-03	7.020E-19	4.855E-02	-1.41E+03	2.51E-15	5.90E+01	0.204
		73	-1.834E+01	2.368E-02	1.409E-19	-1.490E-03	0.000E+00	0.000E+00	-1.41E+03	0.00E+00	0.00E+00	0.196
72	2	32	1.838E+01	2.368E-02	-1.409E-19	1.490E-03	0.000E+00	0.000E+00	-1.41E+03	0.00E+00	0.00E+00	0.196
			-1.929E+01	6.973E-17	-1.712E-19	-1.804E-03	-5.779E-19	4.855E-02	-1.48E+03	-2.06E-15	5.90E+01	0.214
		73	-1.927E+01	2.368E-02	-1.712E-19	-1.804E-03	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.206
72	3	32	1.923E+01	2.368E-02	6.415E-17	4.125E-03	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.205
			-1.843E+01	7.637E-17	6.412E-17	8.301E-04	2.630E-16	4.855E-02	-1.42E+03	9.39E-13	5.90E+01	0.205
		73	-1.841E+01	2.368E-02	6.412E-17	8.301E-04	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
72	4	32	1.845E+01	2.368E-02	-6.412E-17	-8.301E-04	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
			-1.922E+01	7.460E-17	-6.415E-17	-4.125E-03	-2.629E-16	4.855E-02	-1.48E+03	-9.39E-13	5.90E+01	0.213
		73	-1.920E+01	2.368E-02	-6.415E-17	-4.125E-03	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.205

73	1	34	-7.373E+00	2.368E-02	1.587E-19	2.417E-03	0.000E+00	0.000E+00	5.67E+02	0.00E+00	0.00E+00	0.079
			7.989E+00	-5.157E-17	1.609E-19	-1.454E-03	6.505E-19	4.855E-02	6.15E+02	2.32E-15	5.90E+01	0.094
		73	8.007E+00	2.368E-02	1.609E-19	-1.454E-03	0.000E+00	0.000E+00	6.16E+02	0.00E+00	0.00E+00	0.086
73	2	34	-7.970E+00	2.368E-02	-1.609E-19	1.454E-03	0.000E+00	0.000E+00	6.13E+02	0.00E+00	0.00E+00	0.085
			7.391E+00	-5.750E-17	-1.587E-19	-2.417E-03	-6.598E-19	4.855E-02	5.69E+02	-2.36E-15	5.90E+01	0.087
		73	7.410E+00	2.368E-02	-1.587E-19	-2.417E-03	0.000E+00	0.000E+00	5.70E+02	0.00E+00	0.00E+00	0.079
73	3	34	-7.191E+00	2.368E-02	5.787E-17	3.458E-03	0.000E+00	0.000E+00	5.53E+02	0.00E+00	0.00E+00	0.077
			8.171E+00	-5.265E-17	5.787E-17	-4.137E-04	2.373E-16	4.855E-02	6.29E+02	8.47E-13	5.90E+01	0.095
		73	8.189E+00	2.368E-02	5.787E-17	-4.137E-04	0.000E+00	0.000E+00	6.30E+02	0.00E+00	0.00E+00	0.087
73	4	34	-8.152E+00	2.368E-02	-5.787E-17	4.137E-04	0.000E+00	0.000E+00	6.27E+02	0.00E+00	0.00E+00	0.087
			7.209E+00	-5.642E-17	-5.787E-17	-3.458E-03	-2.373E-16	4.855E-02	5.55E+02	-8.47E-13	5.90E+01	0.085
		73	7.228E+00	2.368E-02	-5.787E-17	-3.458E-03	0.000E+00	0.000E+00	5.56E+02	0.00E+00	0.00E+00	0.077
74	1	34	7.098E+00	2.368E-02	1.743E-19	1.877E-03	0.000E+00	0.000E+00	-5.46E+02	0.00E+00	0.00E+00	0.076
			-6.094E+00	3.693E-17	2.121E-19	-1.578E-03	7.145E-19	4.855E-02	-4.69E+02	2.55E-15	5.90E+01	0.073
		75	-6.075E+00	2.368E-02	2.121E-19	-1.578E-03	0.000E+00	0.000E+00	-4.67E+02	0.00E+00	0.00E+00	0.065
74	2	34	6.112E+00	2.368E-02	-2.121E-19	1.578E-03	0.000E+00	0.000E+00	-4.70E+02	0.00E+00	0.00E+00	0.065
			-7.079E+00	3.281E-17	-1.743E-19	-1.877E-03	-8.696E-19	4.855E-02	-5.45E+02	-3.11E-15	5.90E+01	0.084
		75	-7.061E+00	2.368E-02	-1.743E-19	-1.877E-03	0.000E+00	0.000E+00	-5.43E+02	0.00E+00	0.00E+00	0.075
74	3	34	6.927E+00	2.368E-02	6.275E-17	3.056E-03	0.000E+00	0.000E+00	-5.33E+02	0.00E+00	0.00E+00	0.074
			-6.265E+00	3.615E-17	6.279E-17	-3.998E-04	2.573E-16	4.855E-02	-4.82E+02	9.19E-13	5.90E+01	0.075
		75	-6.246E+00	2.368E-02	6.279E-17	-3.998E-04	0.000E+00	0.000E+00	-4.80E+02	0.00E+00	0.00E+00	0.067
74	4	34	6.283E+00	2.368E-02	-6.279E-17	3.998E-04	0.000E+00	0.000E+00	-4.83E+02	0.00E+00	0.00E+00	0.067
			-6.908E+00	3.359E-17	-6.275E-17	-3.056E-03	-2.575E-16	4.855E-02	-5.31E+02	-9.20E-13	5.90E+01	0.082
		75	-6.890E+00	2.368E-02	-6.275E-17	-3.056E-03	0.000E+00	0.000E+00	-5.30E+02	0.00E+00	0.00E+00	0.074
75	1	36	-5.347E+00	2.368E-02	1.780E-19	1.027E-03	0.000E+00	0.000E+00	4.11E+02	0.00E+00	0.00E+00	0.057
			6.016E+00	-1.282E-17	1.329E-19	-9.552E-04	7.298E-19	4.855E-02	4.63E+02	2.61E-15	5.90E+01	0.072
		75	6.034E+00	2.368E-02	1.329E-19	-9.552E-04	0.000E+00	0.000E+00	4.64E+02	0.00E+00	0.00E+00	0.064
75	2	36	-5.998E+00	2.368E-02	-1.329E-19	9.552E-04	0.000E+00	0.000E+00	4.61E+02	0.00E+00	0.00E+00	0.064
			5.365E+00	-1.396E-17	-1.780E-19	-1.027E-03	-5.451E-19	4.855E-02	4.13E+02	-1.95E-15	5.90E+01	0.066
		75	5.383E+00	2.368E-02	-1.780E-19	-1.027E-03	0.000E+00	0.000E+00	4.14E+02	0.00E+00	0.00E+00	0.058
75	3	36	-5.223E+00	2.368E-02	6.057E-17	1.645E-03	0.000E+00	0.000E+00	4.02E+02	0.00E+00	0.00E+00	0.056
			6.139E+00	-1.183E-17	6.053E-17	-3.371E-04	2.484E-16	4.855E-02	4.72E+02	8.87E-13	5.90E+01	0.074
		75	6.158E+00	2.368E-02	6.053E-17	-3.371E-04	0.000E+00	0.000E+00	4.74E+02	0.00E+00	0.00E+00	0.066
75	4	36	-6.121E+00	2.368E-02	-6.053E-17	3.371E-04	0.000E+00	0.000E+00	4.71E+02	0.00E+00	0.00E+00	0.065
			5.242E+00	-1.495E-17	-6.057E-17	-1.645E-03	-2.482E-16	4.855E-02	4.03E+02	-8.86E-13	5.90E+01	0.064
		75	5.260E+00	2.368E-02	-6.057E-17	-1.645E-03	0.000E+00	0.000E+00	4.05E+02	0.00E+00	0.00E+00	0.056
76	1	36	-4.910E+00	2.368E-02	1.907E-19	-9.340E-04	0.000E+00	0.000E+00	3.78E+02	0.00E+00	0.00E+00	0.052
			6.452E+00	-1.205E-17	2.435E-19	1.046E-03	7.819E-19	4.855E-02	4.96E+02	2.79E-15	5.90E+01	0.077
		77	6.470E+00	2.368E-02	2.435E-19	1.046E-03	0.000E+00	0.000E+00	4.98E+02	0.00E+00	0.00E+00	0.069
76	2	36	-6.434E+00	2.368E-02	-2.435E-19	-1.046E-03	0.000E+00	0.000E+00	4.95E+02	0.00E+00	0.00E+00	0.069
			4.928E+00	-1.473E-17	-1.907E-19	9.340E-04	-9.983E-19	4.855E-02	3.79E+02	-3.57E-15	5.90E+01	0.061
		77	4.946E+00	2.368E-02	-1.907E-19	9.340E-04	0.000E+00	0.000E+00	3.80E+02	0.00E+00	0.00E+00	0.053
76	3	36	-5.112E+00	2.368E-02	5.987E-17	-2.717E-04	0.000E+00	0.000E+00	3.93E+02	0.00E+00	0.00E+00	0.055
			6.250E+00	-1.174E-17	5.992E-17	1.708E-03	2.455E-16	4.855E-02	4.81E+02	8.77E-13	5.90E+01	0.075
		77	6.268E+00	2.368E-02	5.992E-17	1.708E-03	0.000E+00	0.000E+00	4.82E+02	0.00E+00	0.00E+00	0.067
76	4	36	-6.231E+00	2.368E-02	-5.992E-17	-1.708E-03	0.000E+00	0.000E+00	4.79E+02	0.00E+00	0.00E+00	0.067

			5.130E+00	-1.503E-17	-5.987E-17	2.717E-04	-2.457E-16	4.855E-02	3.95E+02	-8.77E-13	5.90E+01	0.063
		77	5.149E+00	2.368E-02	-5.987E-17	2.717E-04	0.000E+00	0.000E+00	3.96E+02	0.00E+00	0.00E+00	0.055
77	1	38	7.259E+00	2.368E-02	1.994E-19	-1.607E-03	0.000E+00	0.000E+00	-5.58E+02	0.00E+00	0.00E+00	0.078
			-5.931E+00	3.801E-17	1.619E-19	1.847E-03	8.175E-19	4.855E-02	-4.56E+02	2.92E-15	5.90E+01	0.072
		77	-5.913E+00	2.368E-02	1.619E-19	1.847E-03	0.000E+00	0.000E+00	-4.55E+02	0.00E+00	0.00E+00	0.063
77	2	38	5.949E+00	2.368E-02	-1.619E-19	-1.847E-03	0.000E+00	0.000E+00	-4.58E+02	0.00E+00	0.00E+00	0.064
			-7.241E+00	3.173E-17	-1.994E-19	1.607E-03	-6.640E-19	4.855E-02	-5.57E+02	-2.37E-15	5.90E+01	0.086
		77	-7.223E+00	2.368E-02	-1.994E-19	1.607E-03	0.000E+00	0.000E+00	-5.56E+02	0.00E+00	0.00E+00	0.077
77	3	38	6.832E+00	2.368E-02	6.290E-17	-3.890E-04	0.000E+00	0.000E+00	-5.26E+02	0.00E+00	0.00E+00	0.073
			-6.358E+00	3.612E-17	6.286E-17	3.066E-03	2.579E-16	4.855E-02	-4.89E+02	9.21E-13	5.90E+01	0.076
		77	-6.340E+00	2.368E-02	6.286E-17	3.066E-03	0.000E+00	0.000E+00	-4.88E+02	0.00E+00	0.00E+00	0.068
77	4	38	6.376E+00	2.368E-02	-6.286E-17	-3.066E-03	0.000E+00	0.000E+00	-4.90E+02	0.00E+00	0.00E+00	0.068
			-6.814E+00	3.363E-17	-6.290E-17	3.890E-04	-2.578E-16	4.855E-02	-5.24E+02	-9.21E-13	5.90E+01	0.081
		77	-6.796E+00	2.368E-02	-6.290E-17	3.890E-04	0.000E+00	0.000E+00	-5.23E+02	0.00E+00	0.00E+00	0.073
78	1	38	-6.879E+00	2.368E-02	1.817E-19	-1.609E-03	0.000E+00	0.000E+00	5.29E+02	0.00E+00	0.00E+00	0.073
			8.481E+00	-5.077E-17	1.944E-19	2.263E-03	7.451E-19	4.855E-02	6.52E+02	2.66E-15	5.90E+01	0.099
		79	8.500E+00	2.368E-02	1.944E-19	2.263E-03	0.000E+00	0.000E+00	6.54E+02	0.00E+00	0.00E+00	0.091
78	2	38	-8.463E+00	2.368E-02	-1.944E-19	-2.263E-03	0.000E+00	0.000E+00	6.51E+02	0.00E+00	0.00E+00	0.090
			6.897E+00	-5.830E-17	-1.817E-19	1.609E-03	-7.969E-19	4.855E-02	5.31E+02	-2.85E-15	5.90E+01	0.082
		79	6.916E+00	2.368E-02	-1.817E-19	1.609E-03	0.000E+00	0.000E+00	5.32E+02	0.00E+00	0.00E+00	0.074
78	3	38	-7.078E+00	2.368E-02	5.668E-17	-5.019E-04	0.000E+00	0.000E+00	5.44E+02	0.00E+00	0.00E+00	0.076
			8.282E+00	-5.269E-17	5.670E-17	3.370E-03	2.324E-16	4.855E-02	6.37E+02	8.30E-13	5.90E+01	0.097
		79	8.301E+00	2.368E-02	5.670E-17	3.370E-03	0.000E+00	0.000E+00	6.39E+02	0.00E+00	0.00E+00	0.089
78	4	38	-8.264E+00	2.368E-02	-5.670E-17	-3.370E-03	0.000E+00	0.000E+00	6.36E+02	0.00E+00	0.00E+00	0.088
			7.096E+00	-5.638E-17	-5.668E-17	5.019E-04	-2.325E-16	4.855E-02	5.46E+02	-8.30E-13	5.90E+01	0.084
		79	7.115E+00	2.368E-02	-5.668E-17	5.019E-04	0.000E+00	0.000E+00	5.47E+02	0.00E+00	0.00E+00	0.076
79	1	40	1.981E+01	2.368E-02	1.831E-19	-7.756E-04	0.000E+00	0.000E+00	-1.52E+03	0.00E+00	0.00E+00	0.212
			-1.786E+01	8.055E-17	2.099E-19	2.522E-03	7.508E-19	4.855E-02	-1.37E+03	2.68E-15	5.90E+01	0.199
		79	-1.784E+01	2.368E-02	2.099E-19	2.522E-03	0.000E+00	0.000E+00	-1.37E+03	0.00E+00	0.00E+00	0.191
79	2	40	1.788E+01	2.368E-02	-2.099E-19	-2.522E-03	0.000E+00	0.000E+00	-1.38E+03	0.00E+00	0.00E+00	0.191
			-1.979E+01	7.043E-17	-1.831E-19	7.756E-04	-8.606E-19	4.855E-02	-1.52E+03	-3.07E-15	5.90E+01	0.220
		79	-1.977E+01	2.368E-02	-1.831E-19	7.756E-04	0.000E+00	0.000E+00	-1.52E+03	0.00E+00	0.00E+00	0.211
79	3	40	1.927E+01	2.368E-02	6.391E-17	5.663E-04	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.206
			-1.840E+01	7.650E-17	6.394E-17	3.864E-03	2.620E-16	4.855E-02	-1.42E+03	9.36E-13	5.90E+01	0.205
		79	-1.838E+01	2.368E-02	6.394E-17	3.864E-03	0.000E+00	0.000E+00	-1.41E+03	0.00E+00	0.00E+00	0.196
79	4	40	1.842E+01	2.368E-02	-6.394E-17	-3.864E-03	0.000E+00	0.000E+00	-1.42E+03	0.00E+00	0.00E+00	0.197
			-1.925E+01	7.448E-17	-6.391E-17	-5.663E-04	-2.622E-16	4.855E-02	-1.48E+03	-9.36E-13	5.90E+01	0.214
		79	-1.923E+01	2.368E-02	-6.391E-17	-5.663E-04	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.205
80	1	40	-1.908E+01	2.368E-02	2.107E-19	1.635E-03	0.000E+00	0.000E+00	1.47E+03	0.00E+00	0.00E+00	0.204
			2.120E+01	-8.212E-17	1.747E-19	6.012E-03	8.639E-19	4.855E-02	1.63E+03	3.09E-15	5.90E+01	0.235
		81	2.122E+01	2.368E-02	1.747E-19	6.012E-03	0.000E+00	0.000E+00	1.63E+03	0.00E+00	0.00E+00	0.227
80	2	40	-2.118E+01	2.368E-02	-1.747E-19	-6.012E-03	0.000E+00	0.000E+00	1.63E+03	0.00E+00	0.00E+00	0.226
			1.910E+01	-9.310E-17	-2.107E-19	-1.635E-03	-7.165E-19	4.855E-02	1.47E+03	-2.56E-15	5.90E+01	0.212
		81	1.912E+01	2.368E-02	-2.107E-19	-1.635E-03	0.000E+00	0.000E+00	1.47E+03	0.00E+00	0.00E+00	0.204
80	3	40	-1.936E+01	2.368E-02	5.246E-17	-1.164E-03	0.000E+00	0.000E+00	1.49E+03	0.00E+00	0.00E+00	0.207
			2.092E+01	-8.617E-17	5.243E-17	3.212E-03	2.151E-16	4.855E-02	1.61E+03	7.68E-13	5.90E+01	0.232

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		81	2.094E+01	2.368E-02	5.243E-17	3.212E-03	0.000E+00	0.000E+00	1.61E+03	0.00E+00	0.00E+00	0.224
80	4	40	-2.091E+01	2.368E-02	-5.243E-17	-3.212E-03	0.000E+00	0.000E+00	1.61E+03	0.00E+00	0.00E+00	0.223
			1.937E+01	-8.905E-17	-5.246E-17	1.164E-03	-2.150E-16	4.855E-02	1.49E+03	-7.68E-13	5.90E+01	0.215
		81	1.939E+01	2.368E-02	-5.246E-17	1.164E-03	0.000E+00	0.000E+00	1.49E+03	0.00E+00	0.00E+00	0.207
81	1	42	2.098E+01	2.368E-02	1.042E-19	6.217E-03	0.000E+00	0.000E+00	-1.61E+03	0.00E+00	0.00E+00	0.224
			-1.899E+01	9.936E-17	2.180E-19	1.362E-02	4.274E-19	4.855E-02	-1.46E+03	1.53E-15	5.90E+01	0.211
		81	-1.897E+01	2.368E-02	2.180E-19	1.362E-02	0.000E+00	0.000E+00	-1.46E+03	0.00E+00	0.00E+00	0.203
81	2	42	1.901E+01	2.368E-02	-2.180E-19	-1.362E-02	0.000E+00	0.000E+00	-1.46E+03	0.00E+00	0.00E+00	0.203
			-2.096E+01	8.747E-17	-1.042E-19	-6.217E-03	-8.938E-19	4.855E-02	-1.61E+03	-3.19E-15	5.90E+01	0.232
		81	-2.094E+01	2.368E-02	-1.042E-19	-6.217E-03	0.000E+00	0.000E+00	-1.61E+03	0.00E+00	0.00E+00	0.224
81	3	42	2.058E+01	2.368E-02	6.243E-17	6.678E-03	0.000E+00	0.000E+00	-1.58E+03	0.00E+00	0.00E+00	0.220
			-1.939E+01	9.444E-17	6.255E-17	1.408E-02	2.560E-16	4.855E-02	-1.49E+03	9.14E-13	5.90E+01	0.215
		81	-1.937E+01	2.368E-02	6.255E-17	1.408E-02	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
81	4	42	1.941E+01	2.368E-02	-6.255E-17	-1.408E-02	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
			-2.056E+01	9.240E-17	-6.243E-17	-6.678E-03	-2.565E-16	4.855E-02	-1.58E+03	-9.16E-13	5.90E+01	0.228
		81	-2.054E+01	2.368E-02	-6.243E-17	-6.678E-03	0.000E+00	0.000E+00	-1.58E+03	0.00E+00	0.00E+00	0.219
100	1	30	-1.884E-02	3.616E-02	4.387E-19	7.603E-03	0.000E+00	0.000E+00	1.45E+00	0.00E+00	0.00E+00	0.000
			7.040E-02	-3.747E-18	-1.397E-19	2.583E-02	2.177E-18	8.972E-02	5.42E+00	2.64E-15	3.20E+02	0.045
		11	7.040E-02	3.616E-02	-1.397E-19	2.583E-02	0.000E+00	0.000E+00	5.42E+00	0.00E+00	0.00E+00	0.001
100	2	30	-7.040E-02	3.616E-02	1.397E-19	-2.583E-02	0.000E+00	0.000E+00	5.42E+00	0.00E+00	0.00E+00	0.001
			1.884E-02	-3.747E-18	-4.387E-19	-7.603E-03	6.933E-19	8.972E-02	1.45E+00	8.42E-16	3.20E+02	0.045
		11	1.884E-02	3.616E-02	-4.387E-19	-7.603E-03	0.000E+00	0.000E+00	1.45E+00	0.00E+00	0.00E+00	0.000
100	3	30	3.554E+00	3.616E-02	1.484E-18	-6.639E-03	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
			3.643E+00	-3.747E-18	9.052E-19	1.159E-02	7.362E-18	8.972E-02	2.80E+02	8.94E-15	3.20E+02	0.083
		11	3.643E+00	3.616E-02	9.052E-19	1.159E-02	0.000E+00	0.000E+00	2.80E+02	0.00E+00	0.00E+00	0.039
100	4	30	-3.643E+00	3.616E-02	-9.052E-19	-1.159E-02	0.000E+00	0.000E+00	2.80E+02	0.00E+00	0.00E+00	0.039
			-3.554E+00	-3.747E-18	-1.484E-18	6.639E-03	-4.492E-18	8.972E-02	-2.73E+02	-5.45E-15	3.20E+02	0.082
		11	-3.554E+00	3.616E-02	-1.484E-18	6.639E-03	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
101	1	32	-4.532E-02	3.616E-02	-1.402E-19	6.821E-03	0.000E+00	0.000E+00	3.49E+00	0.00E+00	0.00E+00	0.000
			8.258E-02	-3.747E-18	4.582E-19	4.102E-03	-6.958E-19	8.972E-02	6.35E+00	-8.45E-16	3.20E+02	0.045
		11	8.258E-02	3.616E-02	4.582E-19	4.102E-03	0.000E+00	0.000E+00	6.35E+00	0.00E+00	0.00E+00	0.001
101	2	32	-8.258E-02	3.616E-02	-4.582E-19	-4.102E-03	0.000E+00	0.000E+00	6.35E+00	0.00E+00	0.00E+00	0.001
			4.532E-02	-3.747E-18	1.402E-19	-6.821E-03	-2.274E-18	8.972E-02	3.49E+00	-2.76E-15	3.20E+02	0.045
		11	4.532E-02	3.616E-02	1.402E-19	-6.821E-03	0.000E+00	0.000E+00	3.49E+00	0.00E+00	0.00E+00	0.000
101	3	32	3.467E+00	3.616E-02	8.471E-19	5.519E-03	0.000E+00	0.000E+00	-2.67E+02	0.00E+00	0.00E+00	0.037
			3.594E+00	-3.747E-18	1.446E-18	2.801E-03	4.204E-18	8.972E-02	2.76E+02	5.10E-15	3.20E+02	0.083
		11	3.594E+00	3.616E-02	1.446E-18	2.801E-03	0.000E+00	0.000E+00	2.76E+02	0.00E+00	0.00E+00	0.038
101	4	32	-3.594E+00	3.616E-02	-1.446E-18	-2.801E-03	0.000E+00	0.000E+00	2.76E+02	0.00E+00	0.00E+00	0.038
			-3.467E+00	-3.747E-18	-8.471E-19	-5.519E-03	-7.173E-18	8.972E-02	-2.67E+02	-8.71E-15	3.20E+02	0.082
		11	-3.467E+00	3.616E-02	-8.471E-19	-5.519E-03	0.000E+00	0.000E+00	-2.67E+02	0.00E+00	0.00E+00	0.037
102	1	32	-7.385E-02	3.616E-02	9.987E-19	2.811E-03	0.000E+00	0.000E+00	5.68E+00	0.00E+00	0.00E+00	0.001
			1.263E-01	-3.747E-18	-7.098E-19	-2.160E-03	4.956E-18	8.972E-02	9.72E+00	6.02E-15	3.20E+02	0.046
		13	1.263E-01	3.616E-02	-7.098E-19	-2.160E-03	0.000E+00	0.000E+00	9.72E+00	0.00E+00	0.00E+00	0.001
102	2	32	-1.263E-01	3.616E-02	7.098E-19	2.160E-03	0.000E+00	0.000E+00	9.72E+00	0.00E+00	0.00E+00	0.001
			7.385E-02	-3.747E-18	-9.987E-19	-2.811E-03	3.522E-18	8.972E-02	5.68E+00	4.28E-15	3.20E+02	0.045
		13	7.385E-02	3.616E-02	-9.987E-19	-2.811E-03	0.000E+00	0.000E+00	5.68E+00	0.00E+00	0.00E+00	0.001

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102	3	32	3.302E+00	3.616E-02	1.860E-18	3.850E-03	0.000E+00	0.000E+00	-2.54E+02	0.00E+00	0.00E+00	0.035
			3.502E+00	-3.747E-18	1.515E-19	-1.122E-03	9.230E-18	8.972E-02	2.69E+02	1.12E-14	3.20E+02	0.082
		13	3.502E+00	3.616E-02	1.515E-19	-1.122E-03	0.000E+00	0.000E+00	2.69E+02	0.00E+00	0.00E+00	0.037
102	4	32	-3.502E+00	3.616E-02	-1.515E-19	1.122E-03	0.000E+00	0.000E+00	2.69E+02	0.00E+00	0.00E+00	0.037
			-3.302E+00	-3.747E-18	-1.860E-18	-3.850E-03	-7.517E-19	8.972E-02	-2.54E+02	-9.13E-16	3.20E+02	0.080
		13	-3.302E+00	3.616E-02	-1.860E-18	-3.850E-03	0.000E+00	0.000E+00	-2.54E+02	0.00E+00	0.00E+00	0.035
103	1	34	-1.129E-01	3.616E-02	-7.195E-19	-3.092E-03	0.000E+00	0.000E+00	8.68E+00	0.00E+00	0.00E+00	0.001
			1.321E-01	-3.747E-18	9.996E-19	4.264E-03	-3.571E-18	8.972E-02	1.02E+01	-4.34E-15	3.20E+02	0.046
		13	1.321E-01	3.616E-02	9.996E-19	4.264E-03	0.000E+00	0.000E+00	1.02E+01	0.00E+00	0.00E+00	0.001
103	2	34	-1.321E-01	3.616E-02	-9.996E-19	-4.264E-03	0.000E+00	0.000E+00	1.02E+01	0.00E+00	0.00E+00	0.001
			1.129E-01	-3.747E-18	7.195E-19	3.092E-03	-4.960E-18	8.972E-02	8.68E+00	-6.02E-15	3.20E+02	0.046
		13	1.129E-01	3.616E-02	7.195E-19	3.092E-03	0.000E+00	0.000E+00	8.68E+00	0.00E+00	0.00E+00	0.001
103	3	34	1.369E+00	3.616E-02	-1.501E-19	-1.732E-03	0.000E+00	0.000E+00	-1.05E+02	0.00E+00	0.00E+00	0.015
			1.613E+00	-3.747E-18	1.569E-18	5.624E-03	-7.450E-19	8.972E-02	1.24E+02	-9.05E-16	3.20E+02	0.062
		13	1.613E+00	3.616E-02	1.569E-18	5.624E-03	0.000E+00	0.000E+00	1.24E+02	0.00E+00	0.00E+00	0.017
103	4	34	-1.613E+00	3.616E-02	-1.569E-18	-5.624E-03	0.000E+00	0.000E+00	1.24E+02	0.00E+00	0.00E+00	0.017
			-1.369E+00	-3.747E-18	1.501E-19	1.732E-03	-7.786E-18	8.972E-02	-1.05E+02	-9.45E-15	3.20E+02	0.059
		13	-1.369E+00	3.616E-02	1.501E-19	1.732E-03	0.000E+00	0.000E+00	-1.05E+02	0.00E+00	0.00E+00	0.015
104	1	34	-1.116E-01	3.616E-02	1.180E-18	-1.555E-03	0.000E+00	0.000E+00	8.59E+00	0.00E+00	0.00E+00	0.001
			1.693E-01	-3.747E-18	-9.440E-19	1.816E-03	5.855E-18	8.972E-02	1.30E+01	7.11E-15	3.20E+02	0.046
		15	1.693E-01	3.616E-02	-9.440E-19	1.816E-03	0.000E+00	0.000E+00	1.30E+01	0.00E+00	0.00E+00	0.002
104	2	34	-1.693E-01	3.616E-02	9.440E-19	-1.816E-03	0.000E+00	0.000E+00	1.30E+01	0.00E+00	0.00E+00	0.002
			1.116E-01	-3.747E-18	-1.180E-18	1.555E-03	4.685E-18	8.972E-02	8.59E+00	5.69E-15	3.20E+02	0.046
		15	1.116E-01	3.616E-02	-1.180E-18	1.555E-03	0.000E+00	0.000E+00	8.59E+00	0.00E+00	0.00E+00	0.001
104	3	34	1.220E+00	3.616E-02	1.505E-18	-9.218E-04	0.000E+00	0.000E+00	-9.39E+01	0.00E+00	0.00E+00	0.013
			1.501E+00	-3.747E-18	-6.192E-19	2.449E-03	7.467E-18	8.972E-02	1.15E+02	9.07E-15	3.20E+02	0.061
		15	1.501E+00	3.616E-02	-6.192E-19	2.449E-03	0.000E+00	0.000E+00	1.15E+02	0.00E+00	0.00E+00	0.016
104	4	34	-1.501E+00	3.616E-02	6.192E-19	-2.449E-03	0.000E+00	0.000E+00	1.15E+02	0.00E+00	0.00E+00	0.016
			-1.220E+00	-3.747E-18	-1.505E-18	9.218E-04	3.073E-18	8.972E-02	-9.39E+01	3.73E-15	3.20E+02	0.058
		15	-1.220E+00	3.616E-02	-1.505E-18	9.218E-04	0.000E+00	0.000E+00	-9.39E+01	0.00E+00	0.00E+00	0.013
105	1	36	-1.374E-01	3.616E-02	-9.334E-19	-3.761E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
			1.528E-01	-3.747E-18	1.193E-18	4.043E-03	-4.632E-18	8.972E-02	1.18E+01	-5.62E-15	3.20E+02	0.046
		15	1.528E-01	3.616E-02	1.193E-18	4.043E-03	0.000E+00	0.000E+00	1.18E+01	0.00E+00	0.00E+00	0.002
105	2	36	-1.528E-01	3.616E-02	-1.193E-18	-4.043E-03	0.000E+00	0.000E+00	1.18E+01	0.00E+00	0.00E+00	0.002
			1.374E-01	-3.747E-18	9.334E-19	3.761E-03	-5.920E-18	8.972E-02	1.06E+01	-7.19E-15	3.20E+02	0.046
		15	1.374E-01	3.616E-02	9.334E-19	3.761E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
105	3	36	1.116E+00	3.616E-02	-9.222E-19	-3.370E-03	0.000E+00	0.000E+00	-8.58E+01	0.00E+00	0.00E+00	0.012
			1.406E+00	-3.747E-18	1.204E-18	4.435E-03	-4.576E-18	8.972E-02	1.08E+02	-5.56E-15	3.20E+02	0.060
		15	1.406E+00	3.616E-02	1.204E-18	4.435E-03	0.000E+00	0.000E+00	1.08E+02	0.00E+00	0.00E+00	0.015
105	4	36	-1.406E+00	3.616E-02	-1.204E-18	-4.435E-03	0.000E+00	0.000E+00	1.08E+02	0.00E+00	0.00E+00	0.015
			-1.116E+00	-3.747E-18	9.222E-19	3.370E-03	-5.976E-18	8.972E-02	-8.58E+01	-7.26E-15	3.20E+02	0.056
		15	-1.116E+00	3.616E-02	9.222E-19	3.370E-03	0.000E+00	0.000E+00	-8.58E+01	0.00E+00	0.00E+00	0.012
106	1	36	-1.266E-01	3.616E-02	1.150E-18	4.077E-03	0.000E+00	0.000E+00	9.74E+00	0.00E+00	0.00E+00	0.001
			1.702E-01	-3.747E-18	-9.777E-19	-3.722E-03	5.708E-18	8.972E-02	1.31E+01	6.93E-15	3.20E+02	0.046
		17	1.702E-01	3.616E-02	-9.777E-19	-3.722E-03	0.000E+00	0.000E+00	1.31E+01	0.00E+00	0.00E+00	0.002

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106	2	36	-1.702E-01	3.616E-02	9.777E-19	3.722E-03	0.000E+00	0.000E+00	1.31E+01	0.00E+00	0.00E+00	0.002
			1.266E-01	-3.747E-18	-1.150E-18	-4.077E-03	4.852E-18	8.972E-02	9.74E+00	5.89E-15	3.20E+02	0.046
		17	1.266E-01	3.616E-02	-1.150E-18	-4.077E-03	0.000E+00	0.000E+00	9.74E+00	0.00E+00	0.00E+00	0.001
106	3	36	6.387E-01	3.616E-02	1.330E-18	4.675E-03	0.000E+00	0.000E+00	-4.91E+01	0.00E+00	0.00E+00	0.007
			9.355E-01	-3.747E-18	-7.977E-19	-3.124E-03	6.601E-18	8.972E-02	7.20E+01	8.02E-15	3.20E+02	0.054
		17	9.355E-01	3.616E-02	-7.977E-19	-3.124E-03	0.000E+00	0.000E+00	7.20E+01	0.00E+00	0.00E+00	0.010
106	4	36	-9.355E-01	3.616E-02	7.977E-19	3.124E-03	0.000E+00	0.000E+00	7.20E+01	0.00E+00	0.00E+00	0.010
			-6.387E-01	-3.747E-18	-1.330E-18	-4.675E-03	3.959E-18	8.972E-02	-4.91E+01	4.81E-15	3.20E+02	0.051
		17	-6.387E-01	3.616E-02	-1.330E-18	-4.675E-03	0.000E+00	0.000E+00	-4.91E+01	0.00E+00	0.00E+00	0.007
107	1	38	-1.304E-01	3.616E-02	-9.629E-19	1.920E-03	0.000E+00	0.000E+00	1.00E+01	0.00E+00	0.00E+00	0.001
			1.439E-01	-3.747E-18	1.159E-18	-1.447E-03	-4.778E-18	8.972E-02	1.11E+01	-5.80E-15	3.20E+02	0.046
		17	1.439E-01	3.616E-02	1.159E-18	-1.447E-03	0.000E+00	0.000E+00	1.11E+01	0.00E+00	0.00E+00	0.002
107	2	38	-1.439E-01	3.616E-02	-1.159E-18	1.447E-03	0.000E+00	0.000E+00	1.11E+01	0.00E+00	0.00E+00	0.002
			1.304E-01	-3.747E-18	9.629E-19	-1.920E-03	-5.753E-18	8.972E-02	1.00E+01	-6.99E-15	3.20E+02	0.046
		17	1.304E-01	3.616E-02	9.629E-19	-1.920E-03	0.000E+00	0.000E+00	1.00E+01	0.00E+00	0.00E+00	0.001
107	3	38	7.494E-01	3.616E-02	-4.820E-19	2.556E-03	0.000E+00	0.000E+00	-5.76E+01	0.00E+00	0.00E+00	0.008
			1.024E+00	-3.747E-18	1.640E-18	-8.105E-04	-2.392E-18	8.972E-02	7.88E+01	-2.90E-15	3.20E+02	0.055
		17	1.024E+00	3.616E-02	1.640E-18	-8.105E-04	0.000E+00	0.000E+00	7.88E+01	0.00E+00	0.00E+00	0.011
107	4	38	-1.024E+00	3.616E-02	-1.640E-18	8.105E-04	0.000E+00	0.000E+00	7.88E+01	0.00E+00	0.00E+00	0.011
			-7.494E-01	-3.747E-18	4.820E-19	-2.556E-03	-8.140E-18	8.972E-02	-5.76E+01	-9.88E-15	3.20E+02	0.053
		17	-7.494E-01	3.616E-02	4.820E-19	-2.556E-03	0.000E+00	0.000E+00	-5.76E+01	0.00E+00	0.00E+00	0.008
108	1	38	-1.083E-01	3.616E-02	9.241E-19	4.138E-03	0.000E+00	0.000E+00	8.33E+00	0.00E+00	0.00E+00	0.001
			1.432E-01	-3.747E-18	-7.969E-19	-3.217E-03	4.586E-18	8.972E-02	1.10E+01	5.57E-15	3.20E+02	0.046
		19	1.432E-01	3.616E-02	-7.969E-19	-3.217E-03	0.000E+00	0.000E+00	1.10E+01	0.00E+00	0.00E+00	0.002
108	2	38	-1.432E-01	3.616E-02	7.969E-19	3.217E-03	0.000E+00	0.000E+00	1.10E+01	0.00E+00	0.00E+00	0.002
			1.083E-01	-3.747E-18	-9.241E-19	-4.138E-03	3.954E-18	8.972E-02	8.33E+00	4.80E-15	3.20E+02	0.046
		19	1.083E-01	3.616E-02	-9.241E-19	-4.138E-03	0.000E+00	0.000E+00	8.33E+00	0.00E+00	0.00E+00	0.001
108	3	38	8.902E-01	3.616E-02	1.723E-18	5.628E-03	0.000E+00	0.000E+00	-6.85E+01	0.00E+00	0.00E+00	0.010
			1.142E+00	-3.747E-18	2.395E-21	-1.727E-03	8.552E-18	8.972E-02	8.78E+01	1.04E-14	3.20E+02	0.057
		19	1.142E+00	3.616E-02	2.395E-21	-1.727E-03	0.000E+00	0.000E+00	8.78E+01	0.00E+00	0.00E+00	0.012
108	4	38	-1.142E+00	3.616E-02	-2.395E-21	1.727E-03	0.000E+00	0.000E+00	8.78E+01	0.00E+00	0.00E+00	0.012
			-8.902E-01	-3.747E-18	-1.723E-18	-5.628E-03	-1.189E-20	8.972E-02	-6.85E+01	-1.44E-17	3.20E+02	0.054
		19	-8.902E-01	3.616E-02	-1.723E-18	-5.628E-03	0.000E+00	0.000E+00	-6.85E+01	0.00E+00	0.00E+00	0.010
109	1	40	-9.199E-02	3.616E-02	-7.924E-19	-1.511E-03	0.000E+00	0.000E+00	7.08E+00	0.00E+00	0.00E+00	0.001
			1.016E-01	-3.747E-18	9.138E-19	3.460E-03	-3.932E-18	8.972E-02	7.81E+00	-4.78E-15	3.20E+02	0.046
		19	1.016E-01	3.616E-02	9.138E-19	3.460E-03	0.000E+00	0.000E+00	7.81E+00	0.00E+00	0.00E+00	0.001
109	2	40	-1.016E-01	3.616E-02	-9.138E-19	-3.460E-03	0.000E+00	0.000E+00	7.81E+00	0.00E+00	0.00E+00	0.001
			9.199E-02	-3.747E-18	7.924E-19	1.511E-03	-4.535E-18	8.972E-02	7.08E+00	-5.51E-15	3.20E+02	0.045
		19	9.199E-02	3.616E-02	7.924E-19	1.511E-03	0.000E+00	0.000E+00	7.08E+00	0.00E+00	0.00E+00	0.001
109	3	40	2.816E+00	3.616E-02	3.306E-19	-1.132E-03	0.000E+00	0.000E+00	-2.17E+02	0.00E+00	0.00E+00	0.030
			3.009E+00	-3.747E-18	2.037E-18	3.839E-03	1.641E-18	8.972E-02	2.31E+02	1.99E-15	3.20E+02	0.077
		19	3.009E+00	3.616E-02	2.037E-18	3.839E-03	0.000E+00	0.000E+00	2.31E+02	0.00E+00	0.00E+00	0.032
109	4	40	-3.009E+00	3.616E-02	-2.037E-18	-3.839E-03	0.000E+00	0.000E+00	2.31E+02	0.00E+00	0.00E+00	0.032
			-2.816E+00	-3.747E-18	-3.306E-19	1.132E-03	-1.011E-17	8.972E-02	-2.17E+02	-1.23E-14	3.20E+02	0.075
		19	-2.816E+00	3.616E-02	-3.306E-19	1.132E-03	0.000E+00	0.000E+00	-2.17E+02	0.00E+00	0.00E+00	0.030
110	1	40	-5.447E-02	3.616E-02	3.187E-19	-5.166E-04	0.000E+00	0.000E+00	4.19E+00	0.00E+00	0.00E+00	0.001

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			8.003E-02	-3.747E-18	-2.825E-19	2.197E-03	1.582E-18	8.972E-02	6.16E+00	1.92E-15	3.20E+02	0.045
		21	8.003E-02	3.616E-02	-2.825E-19	2.197E-03	0.000E+00	0.000E+00	6.16E+00	0.00E+00	0.00E+00	0.001
110	2	40	-8.003E-02	3.616E-02	2.825E-19	-2.197E-03	0.000E+00	0.000E+00	6.16E+00	0.00E+00	0.00E+00	0.001
			5.447E-02	-3.747E-18	-3.187E-19	5.166E-04	1.402E-18	8.972E-02	4.19E+00	1.70E-15	3.20E+02	0.045
		21	5.447E-02	3.616E-02	-3.187E-19	5.166E-04	0.000E+00	0.000E+00	4.19E+00	0.00E+00	0.00E+00	0.001
110	3	40	2.971E+00	3.616E-02	1.659E-18	2.466E-03	0.000E+00	0.000E+00	-2.29E+02	0.00E+00	0.00E+00	0.032
			3.106E+00	-3.747E-18	1.058E-18	5.180E-03	8.231E-18	8.972E-02	2.39E+02	1.00E-14	3.20E+02	0.078
		21	3.106E+00	3.616E-02	1.058E-18	5.180E-03	0.000E+00	0.000E+00	2.39E+02	0.00E+00	0.00E+00	0.033
110	4	40	-3.106E+00	3.616E-02	-1.058E-18	-5.180E-03	0.000E+00	0.000E+00	2.39E+02	0.00E+00	0.00E+00	0.033
			-2.971E+00	-3.747E-18	-1.659E-18	-2.466E-03	-5.248E-18	8.972E-02	-2.29E+02	-6.37E-15	3.20E+02	0.076
		21	-2.971E+00	3.616E-02	-1.659E-18	-2.466E-03	0.000E+00	0.000E+00	-2.29E+02	0.00E+00	0.00E+00	0.032
111	1	42	-3.514E-02	3.616E-02	-2.576E-19	9.231E-03	0.000E+00	0.000E+00	2.70E+00	0.00E+00	0.00E+00	0.000
			4.751E-02	-3.747E-18	3.175E-19	-9.029E-03	-1.278E-18	8.972E-02	3.65E+00	-1.55E-15	3.20E+02	0.045
		21	4.751E-02	3.616E-02	3.175E-19	-9.029E-03	0.000E+00	0.000E+00	3.65E+00	0.00E+00	0.00E+00	0.001
111	2	42	-4.751E-02	3.616E-02	-3.175E-19	9.029E-03	0.000E+00	0.000E+00	3.65E+00	0.00E+00	0.00E+00	0.001
			3.514E-02	-3.747E-18	2.576E-19	-9.231E-03	-1.575E-18	8.972E-02	2.70E+00	-1.91E-15	3.20E+02	0.045
		21	3.514E-02	3.616E-02	2.576E-19	-9.231E-03	0.000E+00	0.000E+00	2.70E+00	0.00E+00	0.00E+00	0.000
111	3	42	3.066E+00	3.616E-02	1.161E-18	1.339E-02	0.000E+00	0.000E+00	-2.36E+02	0.00E+00	0.00E+00	0.033
			3.149E+00	-3.747E-18	1.736E-18	-4.875E-03	5.761E-18	8.972E-02	2.42E+02	7.00E-15	3.20E+02	0.078
		21	3.149E+00	3.616E-02	1.736E-18	-4.875E-03	0.000E+00	0.000E+00	2.42E+02	0.00E+00	0.00E+00	0.034
111	4	42	-3.149E+00	3.616E-02	-1.736E-18	4.875E-03	0.000E+00	0.000E+00	2.42E+02	0.00E+00	0.00E+00	0.034
			-3.066E+00	-3.747E-18	-1.161E-18	-1.339E-02	-8.614E-18	8.972E-02	-2.36E+02	-1.05E-14	3.20E+02	0.077
		21	-3.066E+00	3.616E-02	-1.161E-18	-1.339E-02	0.000E+00	0.000E+00	-2.36E+02	0.00E+00	0.00E+00	0.033
120	1	70	3.878E-02	3.616E-02	1.761E-20	-7.032E-03	0.000E+00	0.000E+00	-2.98E+00	0.00E+00	0.00E+00	0.000
			-2.138E-02	-3.747E-18	2.761E-20	1.290E-02	8.740E-20	8.972E-02	-1.64E+00	1.06E-16	3.20E+02	0.045
		51	-2.138E-02	3.616E-02	2.761E-20	1.290E-02	0.000E+00	0.000E+00	-1.64E+00	0.00E+00	0.00E+00	0.000
120	2	70	2.138E-02	3.616E-02	-2.761E-20	-1.290E-02	0.000E+00	0.000E+00	-1.64E+00	0.00E+00	0.00E+00	0.000
			-3.878E-02	-3.747E-18	-1.761E-20	7.032E-03	-1.370E-19	8.972E-02	-2.98E+00	-1.66E-16	3.20E+02	0.045
		51	-3.878E-02	3.616E-02	-1.761E-20	7.032E-03	0.000E+00	0.000E+00	-2.98E+00	0.00E+00	0.00E+00	0.000
120	3	70	4.700E+00	3.616E-02	1.559E-18	-5.295E-03	0.000E+00	0.000E+00	-3.62E+02	0.00E+00	0.00E+00	0.050
			4.640E+00	-3.747E-18	1.569E-18	1.464E-02	7.737E-18	8.972E-02	3.57E+02	9.39E-15	3.20E+02	0.094
		51	4.640E+00	3.616E-02	1.569E-18	1.464E-02	0.000E+00	0.000E+00	3.57E+02	0.00E+00	0.00E+00	0.050
120	4	70	-4.640E+00	3.616E-02	-1.569E-18	-1.464E-02	0.000E+00	0.000E+00	3.57E+02	0.00E+00	0.00E+00	0.050
			-4.700E+00	-3.747E-18	-1.559E-18	5.295E-03	-7.786E-18	8.972E-02	-3.62E+02	-9.45E-15	3.20E+02	0.095
		51	-4.700E+00	3.616E-02	-1.559E-18	5.295E-03	0.000E+00	0.000E+00	-3.62E+02	0.00E+00	0.00E+00	0.050
121	1	72	7.267E-02	3.616E-02	6.063E-19	1.743E-03	0.000E+00	0.000E+00	-5.59E+00	0.00E+00	0.00E+00	0.001
			-5.081E-02	-3.747E-18	-5.662E-19	-1.395E-03	3.009E-18	8.972E-02	-3.91E+00	3.65E-15	3.20E+02	0.045
		51	-5.081E-02	3.616E-02	-5.662E-19	-1.395E-03	0.000E+00	0.000E+00	-3.91E+00	0.00E+00	0.00E+00	0.001
121	2	72	5.081E-02	3.616E-02	5.662E-19	1.395E-03	0.000E+00	0.000E+00	-3.91E+00	0.00E+00	0.00E+00	0.001
			-7.267E-02	-3.747E-18	-6.063E-19	-1.743E-03	2.810E-18	8.972E-02	-5.59E+00	3.41E-15	3.20E+02	0.045
		51	-7.267E-02	3.616E-02	-6.063E-19	-1.743E-03	0.000E+00	0.000E+00	-5.59E+00	0.00E+00	0.00E+00	0.001
121	3	72	4.595E+00	3.616E-02	2.044E-18	4.736E-03	0.000E+00	0.000E+00	-3.53E+02	0.00E+00	0.00E+00	0.049
			4.471E+00	-3.747E-18	8.712E-19	1.598E-03	1.014E-17	8.972E-02	3.44E+02	1.23E-14	3.20E+02	0.092
		51	4.471E+00	3.616E-02	8.712E-19	1.598E-03	0.000E+00	0.000E+00	3.44E+02	0.00E+00	0.00E+00	0.048
121	4	72	-4.471E+00	3.616E-02	-8.712E-19	-1.598E-03	0.000E+00	0.000E+00	3.44E+02	0.00E+00	0.00E+00	0.048
			-4.595E+00	-3.747E-18	-2.044E-18	-4.736E-03	-4.323E-18	8.972E-02	-3.53E+02	-5.25E-15	3.20E+02	0.094

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		51	-4.595E+00	3.616E-02	-2.044E-18	-4.736E-03	0.000E+00	0.000E+00	-3.53E+02	0.00E+00	0.00E+00	0.049
122	1	72	1.021E-01	3.616E-02	-5.507E-19	3.647E-03	0.000E+00	0.000E+00	-7.85E+00	0.00E+00	0.00E+00	0.001
			-8.659E-02	-3.747E-18	6.175E-19	-1.332E-03	-2.733E-18	8.972E-02	-6.66E+00	-3.32E-15	3.20E+02	0.045
		53	-8.659E-02	3.616E-02	6.175E-19	-1.332E-03	0.000E+00	0.000E+00	-6.66E+00	0.00E+00	0.00E+00	0.001
122	2	72	8.659E-02	3.616E-02	-6.175E-19	1.332E-03	0.000E+00	0.000E+00	-6.66E+00	0.00E+00	0.00E+00	0.001
			-1.021E-01	-3.747E-18	5.507E-19	-3.647E-03	-3.064E-18	8.972E-02	-7.85E+00	-3.72E-15	3.20E+02	0.046
		53	-1.021E-01	3.616E-02	5.507E-19	-3.647E-03	0.000E+00	0.000E+00	-7.85E+00	0.00E+00	0.00E+00	0.001
122	3	72	4.488E+00	3.616E-02	6.664E-19	4.034E-03	0.000E+00	0.000E+00	-3.45E+02	0.00E+00	0.00E+00	0.048
			4.299E+00	-3.747E-18	1.835E-18	-9.442E-04	3.307E-18	8.972E-02	3.31E+02	4.02E-15	3.20E+02	0.090
		53	4.299E+00	3.616E-02	1.835E-18	-9.442E-04	0.000E+00	0.000E+00	3.31E+02	0.00E+00	0.00E+00	0.046
122	4	72	-4.299E+00	3.616E-02	-1.835E-18	9.442E-04	0.000E+00	0.000E+00	3.31E+02	0.00E+00	0.00E+00	0.046
			-4.488E+00	-3.747E-18	-6.664E-19	-4.034E-03	-9.104E-18	8.972E-02	-3.45E+02	-1.11E-14	3.20E+02	0.092
		53	-4.488E+00	3.616E-02	-6.664E-19	-4.034E-03	0.000E+00	0.000E+00	-3.45E+02	0.00E+00	0.00E+00	0.048
123	1	74	1.268E-01	3.616E-02	1.004E-18	-3.391E-03	0.000E+00	0.000E+00	-9.76E+00	0.00E+00	0.00E+00	0.001
			-1.125E-01	-3.747E-18	-9.328E-19	3.676E-03	4.982E-18	8.972E-02	-8.66E+00	6.05E-15	3.20E+02	0.046
		53	-1.125E-01	3.616E-02	-9.328E-19	3.676E-03	0.000E+00	0.000E+00	-8.66E+00	0.00E+00	0.00E+00	0.001
123	2	74	1.125E-01	3.616E-02	9.328E-19	-3.676E-03	0.000E+00	0.000E+00	-8.66E+00	0.00E+00	0.00E+00	0.001
			-1.268E-01	-3.747E-18	-1.004E-18	3.391E-03	4.629E-18	8.972E-02	-9.76E+00	5.62E-15	3.20E+02	0.046
		53	-1.268E-01	3.616E-02	-1.004E-18	3.391E-03	0.000E+00	0.000E+00	-9.76E+00	0.00E+00	0.00E+00	0.001
123	3	74	1.756E+00	3.616E-02	1.827E-18	-1.757E-03	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
			1.517E+00	-3.747E-18	-1.102E-19	5.311E-03	9.064E-18	8.972E-02	1.17E+02	1.10E-14	3.20E+02	0.061
		53	1.517E+00	3.616E-02	-1.102E-19	5.311E-03	0.000E+00	0.000E+00	1.17E+02	0.00E+00	0.00E+00	0.016
123	4	74	-1.517E+00	3.616E-02	1.102E-19	-5.311E-03	0.000E+00	0.000E+00	1.17E+02	0.00E+00	0.00E+00	0.016
			-1.756E+00	-3.747E-18	-1.827E-18	1.757E-03	5.468E-19	8.972E-02	-1.35E+02	6.64E-16	3.20E+02	0.063
		53	-1.756E+00	3.616E-02	-1.827E-18	1.757E-03	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
124	1	74	1.482E-01	3.616E-02	-9.204E-19	-1.384E-03	0.000E+00	0.000E+00	-1.14E+01	0.00E+00	0.00E+00	0.002
			-1.303E-01	-3.747E-18	1.013E-18	1.894E-03	-4.568E-18	8.972E-02	-1.00E+01	-5.55E-15	3.20E+02	0.046
		55	-1.303E-01	3.616E-02	1.013E-18	1.894E-03	0.000E+00	0.000E+00	-1.00E+01	0.00E+00	0.00E+00	0.001
124	2	74	1.303E-01	3.616E-02	-1.013E-18	-1.894E-03	0.000E+00	0.000E+00	-1.00E+01	0.00E+00	0.00E+00	0.001
			-1.482E-01	-3.747E-18	9.204E-19	1.384E-03	-5.026E-18	8.972E-02	-1.14E+01	-6.10E-15	3.20E+02	0.046
		55	-1.482E-01	3.616E-02	9.204E-19	1.384E-03	0.000E+00	0.000E+00	-1.14E+01	0.00E+00	0.00E+00	0.002
124	3	74	1.639E+00	3.616E-02	-4.458E-19	-8.124E-04	0.000E+00	0.000E+00	-1.26E+02	0.00E+00	0.00E+00	0.018
			1.360E+00	-3.747E-18	1.488E-18	2.466E-03	-2.212E-18	8.972E-02	1.05E+02	-2.69E-15	3.20E+02	0.059
		55	1.360E+00	3.616E-02	1.488E-18	2.466E-03	0.000E+00	0.000E+00	1.05E+02	0.00E+00	0.00E+00	0.015
124	4	74	-1.360E+00	3.616E-02	-1.488E-18	-2.466E-03	0.000E+00	0.000E+00	1.05E+02	0.00E+00	0.00E+00	0.015
			-1.639E+00	-3.747E-18	4.458E-19	8.124E-04	-7.382E-18	8.972E-02	-1.26E+02	-8.96E-15	3.20E+02	0.062
		55	-1.639E+00	3.616E-02	4.458E-19	8.124E-04	0.000E+00	0.000E+00	-1.26E+02	0.00E+00	0.00E+00	0.018
125	1	76	1.577E-01	3.616E-02	1.178E-18	-3.701E-03	0.000E+00	0.000E+00	-1.21E+01	0.00E+00	0.00E+00	0.002
			-1.426E-01	-3.747E-18	-1.112E-18	4.049E-03	5.847E-18	8.972E-02	-1.10E+01	7.10E-15	3.20E+02	0.046
		55	-1.426E-01	3.616E-02	-1.112E-18	4.049E-03	0.000E+00	0.000E+00	-1.10E+01	0.00E+00	0.00E+00	0.002
125	2	76	1.426E-01	3.616E-02	1.112E-18	-4.049E-03	0.000E+00	0.000E+00	-1.10E+01	0.00E+00	0.00E+00	0.002
			-1.577E-01	-3.747E-18	-1.178E-18	3.701E-03	5.518E-18	8.972E-02	-1.21E+01	6.70E-15	3.20E+02	0.046
		55	-1.577E-01	3.616E-02	-1.178E-18	3.701E-03	0.000E+00	0.000E+00	-1.21E+01	0.00E+00	0.00E+00	0.002
125	3	76	1.464E+00	3.616E-02	1.302E-18	-3.519E-03	0.000E+00	0.000E+00	-1.13E+02	0.00E+00	0.00E+00	0.016
			1.164E+00	-3.747E-18	-9.886E-19	4.231E-03	6.460E-18	8.972E-02	8.95E+01	7.84E-15	3.20E+02	0.057
		55	1.164E+00	3.616E-02	-9.886E-19	4.231E-03	0.000E+00	0.000E+00	8.95E+01	0.00E+00	0.00E+00	0.012

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125	4	76	-1.164E+00	3.616E-02	9.886E-19	-4.231E-03	0.000E+00	0.000E+00	8.95E+01	0.00E+00	0.00E+00	0.012
			-1.464E+00	-3.747E-18	-1.302E-18	3.519E-03	4.906E-18	8.972E-02	-1.13E+02	5.96E-15	3.20E+02	0.060
		55	-1.464E+00	3.616E-02	-1.302E-18	3.519E-03	0.000E+00	0.000E+00	-1.13E+02	0.00E+00	0.00E+00	0.016
126	1	76	1.645E-01	3.616E-02	-1.091E-18	4.053E-03	0.000E+00	0.000E+00	-1.27E+01	0.00E+00	0.00E+00	0.002
			-1.375E-01	-3.747E-18	1.197E-18	-3.692E-03	-5.416E-18	8.972E-02	-1.06E+01	-6.58E-15	3.20E+02	0.046
		57	-1.375E-01	3.616E-02	1.197E-18	-3.692E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
126	2	76	1.375E-01	3.616E-02	-1.197E-18	3.692E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
			-1.645E-01	-3.747E-18	1.091E-18	-4.053E-03	-5.938E-18	8.972E-02	-1.27E+01	-7.21E-15	3.20E+02	0.046
		57	-1.645E-01	3.616E-02	1.091E-18	-4.053E-03	0.000E+00	0.000E+00	-1.27E+01	0.00E+00	0.00E+00	0.002
126	3	76	1.654E+00	3.616E-02	-7.994E-19	4.465E-03	0.000E+00	0.000E+00	-1.27E+02	0.00E+00	0.00E+00	0.018
			1.352E+00	-3.747E-18	1.489E-18	-3.280E-03	-3.967E-18	8.972E-02	1.04E+02	-4.82E-15	3.20E+02	0.059
		57	1.352E+00	3.616E-02	1.489E-18	-3.280E-03	0.000E+00	0.000E+00	1.04E+02	0.00E+00	0.00E+00	0.014
126	4	76	-1.352E+00	3.616E-02	-1.489E-18	3.280E-03	0.000E+00	0.000E+00	1.04E+02	0.00E+00	0.00E+00	0.014
			-1.654E+00	-3.747E-18	7.994E-19	-4.465E-03	-7.387E-18	8.972E-02	-1.27E+02	-8.97E-15	3.20E+02	0.062
		57	-1.654E+00	3.616E-02	7.994E-19	-4.465E-03	0.000E+00	0.000E+00	-1.27E+02	0.00E+00	0.00E+00	0.018
127	1	78	1.479E-01	3.616E-02	9.973E-19	1.855E-03	0.000E+00	0.000E+00	-1.14E+01	0.00E+00	0.00E+00	0.002
			-1.288E-01	-3.747E-18	-9.383E-19	-1.419E-03	4.949E-18	8.972E-02	-9.91E+00	6.01E-15	3.20E+02	0.046
		57	-1.288E-01	3.616E-02	-9.383E-19	-1.419E-03	0.000E+00	0.000E+00	-9.91E+00	0.00E+00	0.00E+00	0.001
127	2	78	1.288E-01	3.616E-02	9.383E-19	1.419E-03	0.000E+00	0.000E+00	-9.91E+00	0.00E+00	0.00E+00	0.001
			-1.479E-01	-3.747E-18	-9.973E-19	-1.855E-03	4.656E-18	8.972E-02	-1.14E+01	5.65E-15	3.20E+02	0.046
		57	-1.479E-01	3.616E-02	-9.973E-19	-1.855E-03	0.000E+00	0.000E+00	-1.14E+01	0.00E+00	0.00E+00	0.002
127	3	78	1.826E+00	3.616E-02	1.678E-18	2.559E-03	0.000E+00	0.000E+00	-1.40E+02	0.00E+00	0.00E+00	0.020
			1.549E+00	-3.747E-18	-2.578E-19	-7.148E-04	8.326E-18	8.972E-02	1.19E+02	1.01E-14	3.20E+02	0.061
		57	1.549E+00	3.616E-02	-2.578E-19	-7.148E-04	0.000E+00	0.000E+00	1.19E+02	0.00E+00	0.00E+00	0.017
127	4	78	-1.549E+00	3.616E-02	2.578E-19	7.148E-04	0.000E+00	0.000E+00	1.19E+02	0.00E+00	0.00E+00	0.017
			-1.826E+00	-3.747E-18	-1.678E-18	-2.559E-03	1.279E-18	8.972E-02	-1.40E+02	1.55E-15	3.20E+02	0.064
		57	-1.826E+00	3.616E-02	-1.678E-18	-2.559E-03	0.000E+00	0.000E+00	-1.40E+02	0.00E+00	0.00E+00	0.020
128	1	78	1.336E-01	3.616E-02	-9.337E-19	4.101E-03	0.000E+00	0.000E+00	-1.03E+01	0.00E+00	0.00E+00	0.001
			-1.075E-01	-3.747E-18	1.001E-18	-2.965E-03	-4.633E-18	8.972E-02	-8.27E+00	-5.63E-15	3.20E+02	0.046
		59	-1.075E-01	3.616E-02	1.001E-18	-2.965E-03	0.000E+00	0.000E+00	-8.27E+00	0.00E+00	0.00E+00	0.001
128	2	78	1.075E-01	3.616E-02	-1.001E-18	2.965E-03	0.000E+00	0.000E+00	-8.27E+00	0.00E+00	0.00E+00	0.001
			-1.336E-01	-3.747E-18	9.337E-19	-4.101E-03	-4.966E-18	8.972E-02	-1.03E+01	-6.03E-15	3.20E+02	0.046
		59	-1.336E-01	3.616E-02	9.337E-19	-4.101E-03	0.000E+00	0.000E+00	-1.03E+01	0.00E+00	0.00E+00	0.001
128	3	78	1.944E+00	3.616E-02	7.793E-20	5.351E-03	0.000E+00	0.000E+00	-1.50E+02	0.00E+00	0.00E+00	0.021
			1.703E+00	-3.747E-18	2.012E-18	-1.715E-03	3.867E-19	8.972E-02	1.31E+02	4.70E-16	3.20E+02	0.063
		59	1.703E+00	3.616E-02	2.012E-18	-1.715E-03	0.000E+00	0.000E+00	1.31E+02	0.00E+00	0.00E+00	0.018
128	4	78	-1.703E+00	3.616E-02	-2.012E-18	1.715E-03	0.000E+00	0.000E+00	1.31E+02	0.00E+00	0.00E+00	0.018
			-1.944E+00	-3.747E-18	-7.793E-20	-5.351E-03	-9.986E-18	8.972E-02	-1.50E+02	-1.21E-14	3.20E+02	0.065
		59	-1.944E+00	3.616E-02	-7.793E-20	-5.351E-03	0.000E+00	0.000E+00	-1.50E+02	0.00E+00	0.00E+00	0.021
129	1	80	1.093E-01	3.616E-02	6.057E-19	-1.471E-03	0.000E+00	0.000E+00	-8.41E+00	0.00E+00	0.00E+00	0.001
			-7.763E-02	-3.747E-18	-5.647E-19	3.507E-03	3.006E-18	8.972E-02	-5.97E+00	3.65E-15	3.20E+02	0.045
		59	-7.763E-02	3.616E-02	-5.647E-19	3.507E-03	0.000E+00	0.000E+00	-5.97E+00	0.00E+00	0.00E+00	0.001
129	2	80	7.763E-02	3.616E-02	5.647E-19	-3.507E-03	0.000E+00	0.000E+00	-5.97E+00	0.00E+00	0.00E+00	0.001
			-1.093E-01	-3.747E-18	-6.057E-19	1.471E-03	2.802E-18	8.972E-02	-8.41E+00	3.40E-15	3.20E+02	0.046
		59	-1.093E-01	3.616E-02	-6.057E-19	1.471E-03	0.000E+00	0.000E+00	-8.41E+00	0.00E+00	0.00E+00	0.001

129	3	80	4.646E+00	3.616E-02	2.019E-18	-9.807E-04	0.000E+00	0.000E+00	-3.57E+02	0.00E+00	0.00E+00	0.050
			4.459E+00	-3.747E-18	8.481E-19	3.997E-03	1.002E-17	8.972E-02	3.43E+02	1.22E-14	3.20E+02	0.092
		59	4.459E+00	3.616E-02	8.481E-19	3.997E-03	0.000E+00	0.000E+00	3.43E+02	0.00E+00	0.00E+00	0.048
129	4	80	-4.459E+00	3.616E-02	-8.481E-19	-3.997E-03	0.000E+00	0.000E+00	3.43E+02	0.00E+00	0.00E+00	0.048
			-4.646E+00	-3.747E-18	-2.019E-18	9.807E-04	-4.208E-18	8.972E-02	-3.57E+02	-5.11E-15	3.20E+02	0.094
		59	-4.646E+00	3.616E-02	-2.019E-18	9.807E-04	0.000E+00	0.000E+00	-3.57E+02	0.00E+00	0.00E+00	0.050
130	1	80	8.266E-02	3.616E-02	-5.640E-19	8.290E-05	0.000E+00	0.000E+00	-6.36E+00	0.00E+00	0.00E+00	0.001
			-4.257E-02	-3.747E-18	6.063E-19	3.214E-03	-2.799E-18	8.972E-02	-3.27E+00	-3.40E-15	3.20E+02	0.045
		61	-4.257E-02	3.616E-02	6.063E-19	3.214E-03	0.000E+00	0.000E+00	-3.27E+00	0.00E+00	0.00E+00	0.000
130	2	80	4.257E-02	3.616E-02	-6.063E-19	-3.214E-03	0.000E+00	0.000E+00	-3.27E+00	0.00E+00	0.00E+00	0.000
			-8.266E-02	-3.747E-18	5.640E-19	-8.290E-05	-3.009E-18	8.972E-02	-6.36E+00	-3.65E-15	3.20E+02	0.045
		61	-8.266E-02	3.616E-02	5.640E-19	-8.290E-05	0.000E+00	0.000E+00	-6.36E+00	0.00E+00	0.00E+00	0.001
130	3	80	4.754E+00	3.616E-02	1.051E-18	1.214E-03	0.000E+00	0.000E+00	-3.66E+02	0.00E+00	0.00E+00	0.051
			4.629E+00	-3.747E-18	2.222E-18	4.345E-03	5.216E-18	8.972E-02	3.56E+02	6.33E-15	3.20E+02	0.094
		61	4.629E+00	3.616E-02	2.222E-18	4.345E-03	0.000E+00	0.000E+00	3.56E+02	0.00E+00	0.00E+00	0.049
130	4	80	-4.629E+00	3.616E-02	-2.222E-18	-4.345E-03	0.000E+00	0.000E+00	3.56E+02	0.00E+00	0.00E+00	0.049
			-4.754E+00	-3.747E-18	-1.051E-18	-1.214E-03	-1.102E-17	8.972E-02	-3.66E+02	-1.34E-14	3.20E+02	0.095
		61	-4.754E+00	3.616E-02	-1.051E-18	-1.214E-03	0.000E+00	0.000E+00	-3.66E+02	0.00E+00	0.00E+00	0.051
131	1	82	4.797E-02	3.616E-02	1.444E-20	1.087E-02	0.000E+00	0.000E+00	-3.69E+00	0.00E+00	0.00E+00	0.001
			-1.046E-02	-3.747E-18	2.318E-21	-9.073E-03	7.163E-20	8.972E-02	-8.05E-01	8.70E-17	3.20E+02	0.045
		61	-1.046E-02	3.616E-02	2.318E-21	-9.073E-03	0.000E+00	0.000E+00	-8.05E-01	0.00E+00	0.00E+00	0.000
131	2	82	1.046E-02	3.616E-02	-2.318E-21	9.073E-03	0.000E+00	0.000E+00	-8.05E-01	0.00E+00	0.00E+00	0.000
			-4.797E-02	-3.747E-18	-1.444E-20	-1.087E-02	-1.150E-20	8.972E-02	-3.69E+00	-1.40E-17	3.20E+02	0.045
		61	-4.797E-02	3.616E-02	-1.444E-20	-1.087E-02	0.000E+00	0.000E+00	-3.69E+00	0.00E+00	0.00E+00	0.001
131	3	82	4.854E+00	3.616E-02	1.746E-18	1.402E-02	0.000E+00	0.000E+00	-3.73E+02	0.00E+00	0.00E+00	0.052
			4.795E+00	-3.747E-18	1.734E-18	-5.923E-03	8.664E-18	8.972E-02	3.69E+02	1.05E-14	3.20E+02	0.096
		61	4.795E+00	3.616E-02	1.734E-18	-5.923E-03	0.000E+00	0.000E+00	3.69E+02	0.00E+00	0.00E+00	0.051
131	4	82	-4.795E+00	3.616E-02	-1.734E-18	5.923E-03	0.000E+00	0.000E+00	3.69E+02	0.00E+00	0.00E+00	0.051
			-4.854E+00	-3.747E-18	-1.746E-18	-1.402E-02	-8.604E-18	8.972E-02	-3.73E+02	-1.04E-14	3.20E+02	0.096
		61	-4.854E+00	3.616E-02	-1.746E-18	-1.402E-02	0.000E+00	0.000E+00	-3.73E+02	0.00E+00	0.00E+00	0.052
140	1	31	6.812E-02	2.733E-02	8.345E-19	9.526E-06	0.000E+00	0.000E+00	-5.24E+00	0.00E+00	0.00E+00	0.001
			-1.394E-02	1.969E-18	5.668E-19	1.099E-04	3.129E-18	5.124E-02	-1.07E+00	3.80E-15	1.83E+02	0.026
		11	-1.394E-02	2.733E-02	5.668E-19	1.099E-04	0.000E+00	0.000E+00	-1.07E+00	0.00E+00	0.00E+00	0.000
140	2	31	1.394E-02	2.733E-02	-5.668E-19	-1.099E-04	0.000E+00	0.000E+00	-1.07E+00	0.00E+00	0.00E+00	0.000
			-6.812E-02	1.120E-18	-8.345E-19	-9.526E-06	-2.126E-18	5.124E-02	-5.24E+00	-2.58E-15	1.83E+02	0.026
		11	-6.812E-02	2.733E-02	-8.345E-19	-9.526E-06	0.000E+00	0.000E+00	-5.24E+00	0.00E+00	0.00E+00	0.001
140	3	31	5.977E-02	2.733E-02	2.389E-18	4.576E-03	0.000E+00	0.000E+00	-4.60E+00	0.00E+00	0.00E+00	0.001
			-2.228E-02	1.429E-16	2.121E-18	4.677E-03	8.958E-18	5.124E-02	-1.71E+00	1.09E-14	1.83E+02	0.026
		11	-2.228E-02	2.733E-02	2.121E-18	4.677E-03	0.000E+00	0.000E+00	-1.71E+00	0.00E+00	0.00E+00	0.000
140	4	31	2.228E-02	2.733E-02	-2.121E-18	-4.677E-03	0.000E+00	0.000E+00	-1.71E+00	0.00E+00	0.00E+00	0.000
			-5.977E-02	-1.398E-16	-2.389E-18	-4.576E-03	-7.954E-18	5.124E-02	-4.60E+00	-9.66E-15	1.83E+02	0.026
		11	-5.977E-02	2.733E-02	-2.389E-18	-4.576E-03	0.000E+00	0.000E+00	-4.60E+00	0.00E+00	0.00E+00	0.001
141	1	32	8.854E-02	2.733E-02	-4.768E-19	-5.547E-05	0.000E+00	0.000E+00	-6.81E+00	0.00E+00	0.00E+00	0.001
			-3.548E-02	1.513E-18	8.644E-19	1.219E-04	-1.788E-18	5.124E-02	-2.73E+00	-2.17E-15	1.83E+02	0.026
		12	-3.548E-02	2.733E-02	8.644E-19	1.219E-04	0.000E+00	0.000E+00	-2.73E+00	0.00E+00	0.00E+00	0.000
141	2	32	3.548E-02	2.733E-02	-8.644E-19	-1.219E-04	0.000E+00	0.000E+00	-2.73E+00	0.00E+00	0.00E+00	0.000

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			-8.854E-02	7.720E-19	4.768E-19	5.547E-05	-3.242E-18	5.124E-02	-6.81E+00	-3.94E-15	1.83E+02	0.026
		12	-8.854E-02	2.733E-02	4.768E-19	5.547E-05	0.000E+00	0.000E+00	-6.81E+00	0.00E+00	0.00E+00	0.001
141	3	32	1.030E-01	2.733E-02	1.393E-18	3.213E-03	0.000E+00	0.000E+00	-7.92E+00	0.00E+00	0.00E+00	0.001
			-2.101E-02	1.395E-16	2.735E-18	3.390E-03	5.225E-18	5.124E-02	-1.62E+00	6.35E-15	1.83E+02	0.026
		12	-2.101E-02	2.733E-02	2.735E-18	3.390E-03	0.000E+00	0.000E+00	-1.62E+00	0.00E+00	0.00E+00	0.000
141	4	32	2.101E-02	2.733E-02	-2.735E-18	-3.390E-03	0.000E+00	0.000E+00	-1.62E+00	0.00E+00	0.00E+00	0.000
			-1.030E-01	-1.372E-16	-1.393E-18	-3.213E-03	-1.026E-17	5.124E-02	-7.92E+00	-1.25E-14	1.83E+02	0.027
		12	-1.030E-01	2.733E-02	-1.393E-18	-3.213E-03	0.000E+00	0.000E+00	-7.92E+00	0.00E+00	0.00E+00	0.001
142	1	34	1.139E-01	2.733E-02	-2.328E-19	-1.513E-06	0.000E+00	0.000E+00	-8.76E+00	0.00E+00	0.00E+00	0.001
			-8.492E-02	1.051E-18	3.144E-19	3.840E-05	-8.731E-19	5.124E-02	-6.53E+00	-1.06E-15	1.83E+02	0.026
		14	-8.492E-02	2.733E-02	3.144E-19	3.840E-05	0.000E+00	0.000E+00	-6.53E+00	0.00E+00	0.00E+00	0.001
142	2	34	8.492E-02	2.733E-02	-3.144E-19	-3.840E-05	0.000E+00	0.000E+00	-6.53E+00	0.00E+00	0.00E+00	0.001
			-1.139E-01	5.014E-19	2.328E-19	1.513E-06	-1.179E-18	5.124E-02	-8.76E+00	-1.43E-15	1.83E+02	0.027
		14	-1.139E-01	2.733E-02	2.328E-19	1.513E-06	0.000E+00	0.000E+00	-8.76E+00	0.00E+00	0.00E+00	0.001
142	3	34	1.407E-01	2.733E-02	7.377E-19	1.849E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.002
			-5.810E-02	1.359E-16	1.285E-18	1.889E-03	2.766E-18	5.124E-02	-4.47E+00	3.36E-15	1.83E+02	0.026
		14	-5.810E-02	2.733E-02	1.285E-18	1.889E-03	0.000E+00	0.000E+00	-4.47E+00	0.00E+00	0.00E+00	0.001
142	4	34	5.810E-02	2.733E-02	-1.285E-18	-1.889E-03	0.000E+00	0.000E+00	-4.47E+00	0.00E+00	0.00E+00	0.001
			-1.407E-01	-1.344E-16	-7.377E-19	-1.849E-03	-4.818E-18	5.124E-02	-1.08E+01	-5.85E-15	1.83E+02	0.027
		14	-1.407E-01	2.733E-02	-7.377E-19	-1.849E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.002
143	1	35	1.202E-01	2.733E-02	6.126E-20	1.677E-05	0.000E+00	0.000E+00	-9.24E+00	0.00E+00	0.00E+00	0.001
			-9.513E-02	1.004E-18	-4.692E-20	1.870E-05	2.297E-19	5.124E-02	-7.32E+00	2.79E-16	1.83E+02	0.026
		15	-9.513E-02	2.733E-02	-4.692E-20	1.870E-05	0.000E+00	0.000E+00	-7.32E+00	0.00E+00	0.00E+00	0.001
143	2	35	9.513E-02	2.733E-02	4.692E-20	-1.870E-05	0.000E+00	0.000E+00	-7.32E+00	0.00E+00	0.00E+00	0.001
			-1.202E-01	5.178E-19	-6.126E-20	-1.677E-05	1.759E-19	5.124E-02	-9.24E+00	2.14E-16	1.83E+02	0.027
		15	-1.202E-01	2.733E-02	-6.126E-20	-1.677E-05	0.000E+00	0.000E+00	-9.24E+00	0.00E+00	0.00E+00	0.001
143	3	35	1.373E-01	2.733E-02	6.912E-19	1.428E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
			-7.797E-02	1.379E-16	5.831E-19	1.430E-03	2.592E-18	5.124E-02	-6.00E+00	3.15E-15	1.83E+02	0.026
		15	-7.797E-02	2.733E-02	5.831E-19	1.430E-03	0.000E+00	0.000E+00	-6.00E+00	0.00E+00	0.00E+00	0.001
143	4	35	7.797E-02	2.733E-02	-5.831E-19	-1.430E-03	0.000E+00	0.000E+00	-6.00E+00	0.00E+00	0.00E+00	0.001
			-1.373E-01	-1.364E-16	-6.912E-19	-1.428E-03	-2.187E-18	5.124E-02	-1.06E+01	-2.66E-15	1.83E+02	0.027
		15	-1.373E-01	2.733E-02	-6.912E-19	-1.428E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
144	1	37	1.176E-01	2.733E-02	-4.516E-20	4.218E-05	0.000E+00	0.000E+00	-9.05E+00	0.00E+00	0.00E+00	0.001
			-9.768E-02	9.653E-19	6.504E-20	4.324E-05	-1.693E-19	5.124E-02	-7.51E+00	-2.06E-16	1.83E+02	0.026
		17	-9.768E-02	2.733E-02	6.504E-20	4.324E-05	0.000E+00	0.000E+00	-7.51E+00	0.00E+00	0.00E+00	0.001
144	2	37	9.768E-02	2.733E-02	-6.504E-20	-4.324E-05	0.000E+00	0.000E+00	-7.51E+00	0.00E+00	0.00E+00	0.001
			-1.176E-01	5.597E-19	4.516E-20	-4.218E-05	-2.439E-19	5.124E-02	-9.05E+00	-2.96E-16	1.83E+02	0.027
		17	-1.176E-01	2.733E-02	4.516E-20	-4.218E-05	0.000E+00	0.000E+00	-9.05E+00	0.00E+00	0.00E+00	0.001
144	3	37	1.372E-01	2.733E-02	7.617E-19	1.362E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
			-7.803E-02	1.380E-16	8.719E-19	1.363E-03	2.856E-18	5.124E-02	-6.00E+00	3.47E-15	1.83E+02	0.026
		17	-7.803E-02	2.733E-02	8.719E-19	1.363E-03	0.000E+00	0.000E+00	-6.00E+00	0.00E+00	0.00E+00	0.001
144	4	37	7.803E-02	2.733E-02	-8.719E-19	-1.363E-03	0.000E+00	0.000E+00	-6.00E+00	0.00E+00	0.00E+00	0.001
			-1.372E-01	-1.365E-16	-7.617E-19	-1.362E-03	-3.270E-18	5.124E-02	-1.06E+01	-3.97E-15	1.83E+02	0.027
		17	-1.372E-01	2.733E-02	-7.617E-19	-1.362E-03	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
145	1	38	1.069E-01	2.733E-02	3.256E-19	7.537E-05	0.000E+00	0.000E+00	-8.22E+00	0.00E+00	0.00E+00	0.001
			-9.191E-02	9.847E-19	-2.193E-19	3.705E-05	1.221E-18	5.124E-02	-7.07E+00	1.48E-15	1.83E+02	0.026

		18	-9.191E-02	2.733E-02	-2.193E-19	3.705E-05	0.000E+00	0.000E+00	-7.07E+00	0.00E+00	0.00E+00	0.001
145	2	38	9.191E-02	2.733E-02	2.193E-19	-3.705E-05	0.000E+00	0.000E+00	-7.07E+00	0.00E+00	0.00E+00	0.001
			-1.069E-01	5.710E-19	-3.256E-19	-7.537E-05	8.222E-19	5.124E-02	-8.22E+00	9.98E-16	1.83E+02	0.027
		18	-1.069E-01	2.733E-02	-3.256E-19	-7.537E-05	0.000E+00	0.000E+00	-8.22E+00	0.00E+00	0.00E+00	0.001
145	3	38	1.405E-01	2.733E-02	1.485E-18	1.692E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.002
			-5.830E-02	1.360E-16	9.397E-19	1.654E-03	5.567E-18	5.124E-02	-4.48E+00	6.76E-15	1.83E+02	0.026
		18	-5.830E-02	2.733E-02	9.397E-19	1.654E-03	0.000E+00	0.000E+00	-4.48E+00	0.00E+00	0.00E+00	0.001
145	4	38	5.830E-02	2.733E-02	-9.397E-19	-1.654E-03	0.000E+00	0.000E+00	-4.48E+00	0.00E+00	0.00E+00	0.001
			-1.405E-01	-1.345E-16	-1.485E-18	-1.692E-03	-3.524E-18	5.124E-02	-1.08E+01	-4.28E-15	1.83E+02	0.027
		18	-1.405E-01	2.733E-02	-1.485E-18	-1.692E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.002
146	1	40	6.939E-02	2.733E-02	8.934E-19	1.707E-04	0.000E+00	0.000E+00	-5.34E+00	0.00E+00	0.00E+00	0.001
			-5.464E-02	1.483E-18	-4.443E-19	-2.257E-05	3.350E-18	5.124E-02	-4.20E+00	4.07E-15	1.83E+02	0.026
		20	-5.464E-02	2.733E-02	-4.443E-19	-2.257E-05	0.000E+00	0.000E+00	-4.20E+00	0.00E+00	0.00E+00	0.001
146	2	40	5.464E-02	2.733E-02	4.443E-19	2.257E-05	0.000E+00	0.000E+00	-4.20E+00	0.00E+00	0.00E+00	0.001
			-6.939E-02	7.982E-19	-8.934E-19	-1.707E-04	1.666E-18	5.124E-02	-5.34E+00	2.02E-15	1.83E+02	0.026
		20	-6.939E-02	2.733E-02	-8.934E-19	-1.707E-04	0.000E+00	0.000E+00	-5.34E+00	0.00E+00	0.00E+00	0.001
146	3	40	1.022E-01	2.733E-02	3.010E-18	2.938E-03	0.000E+00	0.000E+00	-7.86E+00	0.00E+00	0.00E+00	0.001
			-2.185E-02	1.389E-16	1.672E-18	2.745E-03	1.129E-17	5.124E-02	-1.68E+00	1.37E-14	1.83E+02	0.026
		20	-2.185E-02	2.733E-02	1.672E-18	2.745E-03	0.000E+00	0.000E+00	-1.68E+00	0.00E+00	0.00E+00	0.000
146	4	40	2.185E-02	2.733E-02	-1.672E-18	-2.745E-03	0.000E+00	0.000E+00	-1.68E+00	0.00E+00	0.00E+00	0.000
			-1.022E-01	-1.366E-16	-3.010E-18	-2.938E-03	-6.271E-18	5.124E-02	-7.86E+00	-7.61E-15	1.83E+02	0.027
		20	-1.022E-01	2.733E-02	-3.010E-18	-2.938E-03	0.000E+00	0.000E+00	-7.86E+00	0.00E+00	0.00E+00	0.001
147	1	41	8.776E-02	2.733E-02	6.063E-19	1.356E-04	0.000E+00	0.000E+00	-6.75E+00	0.00E+00	0.00E+00	0.001
			5.698E-03	1.892E-18	8.782E-19	4.151E-05	2.274E-18	5.124E-02	4.38E-01	2.76E-15	1.83E+02	0.025
		21	5.698E-03	2.733E-02	8.782E-19	4.151E-05	0.000E+00	0.000E+00	4.38E-01	0.00E+00	0.00E+00	0.000
147	2	41	-5.698E-03	2.733E-02	-8.782E-19	-4.151E-05	0.000E+00	0.000E+00	4.38E-01	0.00E+00	0.00E+00	0.000
			-8.776E-02	1.186E-18	-6.063E-19	-1.356E-04	-3.293E-18	5.124E-02	-6.75E+00	-4.00E-15	1.83E+02	0.026
		21	-8.776E-02	2.733E-02	-6.063E-19	-1.356E-04	0.000E+00	0.000E+00	-6.75E+00	0.00E+00	0.00E+00	0.001
147	3	41	6.001E-02	2.733E-02	2.438E-18	4.733E-03	0.000E+00	0.000E+00	-4.62E+00	0.00E+00	0.00E+00	0.001
			-2.205E-02	1.417E-16	2.710E-18	4.639E-03	9.144E-18	5.124E-02	-1.70E+00	1.11E-14	1.83E+02	0.026
		21	-2.205E-02	2.733E-02	2.710E-18	4.639E-03	0.000E+00	0.000E+00	-1.70E+00	0.00E+00	0.00E+00	0.000
147	4	41	2.205E-02	2.733E-02	-2.710E-18	-4.639E-03	0.000E+00	0.000E+00	-1.70E+00	0.00E+00	0.00E+00	0.000
			-6.001E-02	-1.386E-16	-2.438E-18	-4.733E-03	-1.016E-17	5.124E-02	-4.62E+00	-1.23E-14	1.83E+02	0.026
		21	-6.001E-02	2.733E-02	-2.438E-18	-4.733E-03	0.000E+00	0.000E+00	-4.62E+00	0.00E+00	0.00E+00	0.001
150	1	71	1.131E-02	2.733E-02	-1.789E-21	2.228E-05	0.000E+00	0.000E+00	-8.70E-01	0.00E+00	0.00E+00	0.000
			7.991E-02	1.705E-18	1.407E-18	7.125E-05	-6.709E-21	5.124E-02	6.15E+00	-8.15E-18	1.83E+02	0.026
		51	7.991E-02	2.733E-02	1.407E-18	7.125E-05	0.000E+00	0.000E+00	6.15E+00	0.00E+00	0.00E+00	0.001
150	2	71	-7.991E-02	2.733E-02	-1.407E-18	-7.125E-05	0.000E+00	0.000E+00	6.15E+00	0.00E+00	0.00E+00	0.001
			-1.131E-02	1.168E-18	1.789E-21	-2.228E-05	-5.275E-18	5.124E-02	-8.70E-01	-6.41E-15	1.83E+02	0.026
		51	-1.131E-02	2.733E-02	1.789E-21	-2.228E-05	0.000E+00	0.000E+00	-8.70E-01	0.00E+00	0.00E+00	0.000
150	3	71	8.875E-03	2.733E-02	2.243E-18	6.366E-03	0.000E+00	0.000E+00	-6.83E-01	0.00E+00	0.00E+00	0.000
			7.747E-02	1.428E-16	3.652E-18	6.415E-03	8.411E-18	5.124E-02	5.96E+00	1.02E-14	1.83E+02	0.026
		51	7.747E-02	2.733E-02	3.652E-18	6.415E-03	0.000E+00	0.000E+00	5.96E+00	0.00E+00	0.00E+00	0.001
150	4	71	-7.747E-02	2.733E-02	-3.652E-18	-6.415E-03	0.000E+00	0.000E+00	5.96E+00	0.00E+00	0.00E+00	0.001
			-8.875E-03	-1.399E-16	-2.243E-18	-6.366E-03	-1.369E-17	5.124E-02	-6.83E-01	-1.66E-14	1.83E+02	0.026
		51	-8.875E-03	2.733E-02	-2.243E-18	-6.366E-03	0.000E+00	0.000E+00	-6.83E-01	0.00E+00	0.00E+00	0.000

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151	1	72	-5.068E-02	2.733E-02	4.462E-19	-6.135E-05	0.000E+00	0.000E+00	3.90E+00	0.00E+00	0.00E+00	0.001
			6.750E-02	1.418E-18	-4.506E-20	1.294E-04	1.673E-18	5.124E-02	5.19E+00	2.03E-15	1.83E+02	0.026
		52	6.750E-02	2.733E-02	-4.506E-20	1.294E-04	0.000E+00	0.000E+00	5.19E+00	0.00E+00	0.00E+00	0.001
151	2	72	-6.750E-02	2.733E-02	4.506E-20	-1.294E-04	0.000E+00	0.000E+00	5.19E+00	0.00E+00	0.00E+00	0.001
			5.068E-02	8.739E-19	-4.462E-19	6.135E-05	1.690E-19	5.124E-02	3.90E+00	2.05E-16	1.83E+02	0.026
		52	5.068E-02	2.733E-02	-4.462E-19	6.135E-05	0.000E+00	0.000E+00	3.90E+00	0.00E+00	0.00E+00	0.001
151	3	72	-1.609E-02	2.733E-02	2.772E-18	2.985E-03	0.000E+00	0.000E+00	1.24E+00	0.00E+00	0.00E+00	0.000
			1.021E-01	1.394E-16	2.281E-18	3.176E-03	1.040E-17	5.124E-02	7.85E+00	1.26E-14	1.83E+02	0.027
		52	1.021E-01	2.733E-02	2.281E-18	3.176E-03	0.000E+00	0.000E+00	7.85E+00	0.00E+00	0.00E+00	0.001
151	4	72	-1.021E-01	2.733E-02	-2.281E-18	-3.176E-03	0.000E+00	0.000E+00	7.85E+00	0.00E+00	0.00E+00	0.001
			1.609E-02	-1.371E-16	-2.772E-18	-2.985E-03	-8.554E-18	5.124E-02	1.24E+00	-1.04E-14	1.83E+02	0.026
		52	1.609E-02	2.733E-02	-2.772E-18	-2.985E-03	0.000E+00	0.000E+00	1.24E+00	0.00E+00	0.00E+00	0.000
152	1	74	-9.414E-02	2.733E-02	1.837E-19	-2.938E-06	0.000E+00	0.000E+00	7.24E+00	0.00E+00	0.00E+00	0.001
			1.011E-01	1.108E-18	-1.394E-19	3.924E-05	6.887E-19	5.124E-02	7.78E+00	8.36E-16	1.83E+02	0.026
		54	1.011E-01	2.733E-02	-1.394E-19	3.924E-05	0.000E+00	0.000E+00	7.78E+00	0.00E+00	0.00E+00	0.001
152	2	74	-1.011E-01	2.733E-02	1.394E-19	-3.924E-05	0.000E+00	0.000E+00	7.78E+00	0.00E+00	0.00E+00	0.001
			9.414E-02	5.940E-19	-1.837E-19	2.938E-06	5.226E-19	5.124E-02	7.24E+00	6.35E-16	1.83E+02	0.026
		54	9.414E-02	2.733E-02	-1.837E-19	2.938E-06	0.000E+00	0.000E+00	7.24E+00	0.00E+00	0.00E+00	0.001
152	3	74	-5.679E-02	2.733E-02	1.329E-18	1.826E-03	0.000E+00	0.000E+00	4.37E+00	0.00E+00	0.00E+00	0.001
			1.385E-01	1.359E-16	1.006E-18	1.868E-03	4.983E-18	5.124E-02	1.07E+01	6.05E-15	1.83E+02	0.027
		54	1.385E-01	2.733E-02	1.006E-18	1.868E-03	0.000E+00	0.000E+00	1.07E+01	0.00E+00	0.00E+00	0.001
152	4	74	-1.385E-01	2.733E-02	-1.006E-18	-1.868E-03	0.000E+00	0.000E+00	1.07E+01	0.00E+00	0.00E+00	0.001
			5.679E-02	-1.342E-16	-1.329E-18	-1.826E-03	-3.771E-18	5.124E-02	4.37E+00	-4.58E-15	1.83E+02	0.026
		54	5.679E-02	2.733E-02	-1.329E-18	-1.826E-03	0.000E+00	0.000E+00	4.37E+00	0.00E+00	0.00E+00	0.001
153	1	75	-1.052E-01	2.733E-02	-2.262E-19	1.676E-05	0.000E+00	0.000E+00	8.09E+00	0.00E+00	0.00E+00	0.001
			1.136E-01	1.079E-18	2.540E-19	1.818E-05	-8.484E-19	5.124E-02	8.74E+00	-1.03E-15	1.83E+02	0.027
		55	1.136E-01	2.733E-02	2.540E-19	1.818E-05	0.000E+00	0.000E+00	8.74E+00	0.00E+00	0.00E+00	0.001
153	2	75	-1.136E-01	2.733E-02	-2.540E-19	-1.818E-05	0.000E+00	0.000E+00	8.74E+00	0.00E+00	0.00E+00	0.001
			1.052E-01	6.080E-19	2.262E-19	-1.676E-05	-9.524E-19	5.124E-02	8.09E+00	-1.16E-15	1.83E+02	0.027
		55	1.052E-01	2.733E-02	2.262E-19	-1.676E-05	0.000E+00	0.000E+00	8.09E+00	0.00E+00	0.00E+00	0.001
153	3	75	-5.071E-02	2.733E-02	4.911E-19	1.428E-03	0.000E+00	0.000E+00	3.90E+00	0.00E+00	0.00E+00	0.001
			1.681E-01	1.378E-16	9.713E-19	1.429E-03	1.842E-18	5.124E-02	1.29E+01	2.24E-15	1.83E+02	0.027
		55	1.681E-01	2.733E-02	9.713E-19	1.429E-03	0.000E+00	0.000E+00	1.29E+01	0.00E+00	0.00E+00	0.002
153	4	75	-1.681E-01	2.733E-02	-9.713E-19	-1.429E-03	0.000E+00	0.000E+00	1.29E+01	0.00E+00	0.00E+00	0.002
			5.071E-02	-1.361E-16	-4.911E-19	-1.428E-03	-3.642E-18	5.124E-02	3.90E+00	-4.42E-15	1.83E+02	0.026
		55	5.071E-02	2.733E-02	-4.911E-19	-1.428E-03	0.000E+00	0.000E+00	3.90E+00	0.00E+00	0.00E+00	0.001
154	1	77	-1.057E-01	2.733E-02	2.628E-19	4.202E-05	0.000E+00	0.000E+00	8.13E+00	0.00E+00	0.00E+00	0.001
			1.131E-01	1.047E-18	-2.137E-19	4.352E-05	9.855E-19	5.124E-02	8.70E+00	1.20E-15	1.83E+02	0.027
		57	1.131E-01	2.733E-02	-2.137E-19	4.352E-05	0.000E+00	0.000E+00	8.70E+00	0.00E+00	0.00E+00	0.001
154	2	77	-1.131E-01	2.733E-02	2.137E-19	-4.352E-05	0.000E+00	0.000E+00	8.70E+00	0.00E+00	0.00E+00	0.001
			1.057E-01	6.437E-19	-2.628E-19	-4.202E-05	8.014E-19	5.124E-02	8.13E+00	9.73E-16	1.83E+02	0.027
		57	1.057E-01	2.733E-02	-2.628E-19	-4.202E-05	0.000E+00	0.000E+00	8.13E+00	0.00E+00	0.00E+00	0.001
154	3	77	-5.088E-02	2.733E-02	1.283E-18	1.354E-03	0.000E+00	0.000E+00	3.91E+00	0.00E+00	0.00E+00	0.001
			1.679E-01	1.379E-16	8.063E-19	1.355E-03	4.811E-18	5.124E-02	1.29E+01	5.84E-15	1.83E+02	0.027
		57	1.679E-01	2.733E-02	8.063E-19	1.355E-03	0.000E+00	0.000E+00	1.29E+01	0.00E+00	0.00E+00	0.002

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154	4	77	-1.679E-01	2.733E-02	-8.063E-19	-1.355E-03	0.000E+00	0.000E+00	1.29E+01	0.00E+00	0.00E+00	0.002
			5.088E-02	-1.363E-16	-1.283E-18	-1.354E-03	-3.024E-18	5.124E-02	3.91E+00	-3.67E-15	1.83E+02	0.026
		57	5.088E-02	2.733E-02	-1.283E-18	-1.354E-03	0.000E+00	0.000E+00	3.91E+00	0.00E+00	0.00E+00	0.001
155	1	78	-9.363E-02	2.733E-02	-1.555E-19	7.672E-05	0.000E+00	0.000E+00	7.20E+00	0.00E+00	0.00E+00	0.001
			1.016E-01	1.062E-18	1.713E-19	3.658E-05	-5.830E-19	5.124E-02	7.82E+00	-7.08E-16	1.83E+02	0.027
		58	1.016E-01	2.733E-02	1.713E-19	3.658E-05	0.000E+00	0.000E+00	7.82E+00	0.00E+00	0.00E+00	0.001
155	2	78	-1.016E-01	2.733E-02	-1.713E-19	-3.658E-05	0.000E+00	0.000E+00	7.82E+00	0.00E+00	0.00E+00	0.001
			9.363E-02	6.429E-19	1.555E-19	-7.672E-05	-6.422E-19	5.124E-02	7.20E+00	-7.80E-16	1.83E+02	0.026
		58	9.363E-02	2.733E-02	1.555E-19	-7.672E-05	0.000E+00	0.000E+00	7.20E+00	0.00E+00	0.00E+00	0.001
155	3	78	-5.702E-02	2.733E-02	1.317E-18	1.681E-03	0.000E+00	0.000E+00	4.39E+00	0.00E+00	0.00E+00	0.001
			1.383E-01	1.359E-16	1.644E-18	1.640E-03	4.940E-18	5.124E-02	1.06E+01	6.00E-15	1.83E+02	0.027
		58	1.383E-01	2.733E-02	1.644E-18	1.640E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
155	4	78	-1.383E-01	2.733E-02	-1.644E-18	-1.640E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
			5.702E-02	-1.342E-16	-1.317E-18	-1.681E-03	-6.166E-18	5.124E-02	4.39E+00	-7.49E-15	1.83E+02	0.026
		58	5.702E-02	2.733E-02	-1.317E-18	-1.681E-03	0.000E+00	0.000E+00	4.39E+00	0.00E+00	0.00E+00	0.001
156	1	80	-4.684E-02	2.733E-02	-7.489E-20	1.754E-04	0.000E+00	0.000E+00	3.60E+00	0.00E+00	0.00E+00	0.001
			7.135E-02	1.505E-18	4.199E-19	-2.356E-05	-2.808E-19	5.124E-02	5.49E+00	-3.41E-16	1.83E+02	0.026
		60	7.135E-02	2.733E-02	4.199E-19	-2.356E-05	0.000E+00	0.000E+00	5.49E+00	0.00E+00	0.00E+00	0.001
156	2	80	-7.135E-02	2.733E-02	-4.199E-19	2.356E-05	0.000E+00	0.000E+00	5.49E+00	0.00E+00	0.00E+00	0.001
			4.684E-02	7.834E-19	7.489E-20	-1.754E-04	-1.575E-18	5.124E-02	3.60E+00	-1.91E-15	1.83E+02	0.026
		60	4.684E-02	2.733E-02	7.489E-20	-1.754E-04	0.000E+00	0.000E+00	3.60E+00	0.00E+00	0.00E+00	0.001
156	3	80	-1.642E-02	2.733E-02	2.579E-18	2.913E-03	0.000E+00	0.000E+00	1.26E+00	0.00E+00	0.00E+00	0.000
			1.018E-01	1.388E-16	3.074E-18	2.714E-03	9.672E-18	5.124E-02	7.83E+00	1.17E-14	1.83E+02	0.027
		60	1.018E-01	2.733E-02	3.074E-18	2.714E-03	0.000E+00	0.000E+00	7.83E+00	0.00E+00	0.00E+00	0.001
156	4	80	-1.018E-01	2.733E-02	-3.074E-18	-2.714E-03	0.000E+00	0.000E+00	7.83E+00	0.00E+00	0.00E+00	0.001
			1.642E-02	-1.365E-16	-2.579E-18	-2.913E-03	-1.153E-17	5.124E-02	1.26E+00	-1.40E-14	1.83E+02	0.026
		60	1.642E-02	2.733E-02	-2.579E-18	-2.913E-03	0.000E+00	0.000E+00	1.26E+00	0.00E+00	0.00E+00	0.000
157	1	81	8.547E-03	2.733E-02	1.359E-18	1.275E-04	0.000E+00	0.000E+00	-6.57E-01	0.00E+00	0.00E+00	0.000
			7.715E-02	1.920E-18	-4.527E-20	5.159E-05	5.098E-18	5.124E-02	5.93E+00	6.19E-15	1.83E+02	0.026
		61	7.715E-02	2.733E-02	-4.527E-20	5.159E-05	0.000E+00	0.000E+00	5.93E+00	0.00E+00	0.00E+00	0.001
157	2	81	-7.715E-02	2.733E-02	4.527E-20	-5.159E-05	0.000E+00	0.000E+00	5.93E+00	0.00E+00	0.00E+00	0.001
			-8.547E-03	9.412E-19	-1.359E-18	-1.275E-04	1.698E-19	5.124E-02	-6.57E-01	2.06E-16	1.83E+02	0.026
		61	-8.547E-03	2.733E-02	-1.359E-18	-1.275E-04	0.000E+00	0.000E+00	-6.57E-01	0.00E+00	0.00E+00	0.000
157	3	81	7.743E-03	2.733E-02	3.957E-18	4.856E-03	0.000E+00	0.000E+00	-5.96E-01	0.00E+00	0.00E+00	0.000
			7.634E-02	1.415E-16	2.552E-18	4.780E-03	1.484E-17	5.124E-02	5.87E+00	1.80E-14	1.83E+02	0.026
		61	7.634E-02	2.733E-02	2.552E-18	4.780E-03	0.000E+00	0.000E+00	5.87E+00	0.00E+00	0.00E+00	0.001
157	4	81	-7.634E-02	2.733E-02	-2.552E-18	-4.780E-03	0.000E+00	0.000E+00	5.87E+00	0.00E+00	0.00E+00	0.001
			-7.743E-03	-1.386E-16	-3.957E-18	-4.856E-03	-9.572E-18	5.124E-02	-5.96E-01	-1.16E-14	1.83E+02	0.025
		61	-7.743E-03	2.733E-02	-3.957E-18	-4.856E-03	0.000E+00	0.000E+00	-5.96E-01	0.00E+00	0.00E+00	0.000
160	1	30	-7.156E-01	1.955E+00	3.162E-01	-6.689E-05	1.049E-01	1.940E+00	2.33E+01	6.56E+01	3.46E+02	0.060
			7.914E-01	-1.298E+00	2.905E-01	1.601E-04	2.583E-01	1.171E-01	2.58E+01	1.61E+02	2.09E+01	0.029
		105	7.914E-01	-6.471E-01	2.905E-01	1.601E-04	6.215E-01	1.333E+00	2.58E+01	3.88E+02	2.38E+02	0.091
160	2	30	-7.914E-01	1.948E+00	-2.905E-01	-1.601E-04	-2.007E-01	1.912E+00	2.58E+01	-1.25E+02	3.41E+02	0.068
			7.156E-01	-1.305E+00	-3.162E-01	6.689E-05	-1.946E-01	9.731E-02	2.33E+01	-1.22E+02	1.74E+01	0.023
		105	7.156E-01	-6.539E-01	-3.162E-01	6.689E-05	-5.898E-01	1.321E+00	2.33E+01	-3.69E+02	2.36E+02	0.087
160	3	30	2.473E+00	3.940E+00	2.169E-02	1.172E-02	-1.150E-02	1.000E+01	-8.06E+01	-7.19E+00	1.79E+03	0.260

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			3.980E+00	6.872E-01	-3.964E-03	1.194E-02	5.734E-02	5.700E+00	1.30E+02	3.58E+01	1.02E+03	0.164
		105	3.980E+00	1.338E+00	-3.964E-03	1.194E-02	3.068E-02	4.434E+00	1.30E+02	1.92E+01	7.92E+02	0.131
160	4	30	-3.980E+00	-3.650E-02	3.964E-03	-1.194E-02	-8.428E-02	-6.152E+00	1.30E+02	-5.27E+01	-1.10E+03	0.178
			-2.473E+00	-3.290E+00	-2.169E-02	-1.172E-02	6.370E-03	-5.486E+00	-8.06E+01	3.98E+00	-9.80E+02	0.148
		105	-2.473E+00	-2.639E+00	-2.169E-02	-1.172E-02	9.693E-04	-1.780E+00	-8.06E+01	6.06E-01	-3.18E+02	0.055
161	1	105	-7.154E-01	6.540E-01	1.870E-02	-6.689E-05	5.898E-01	-1.321E+00	2.33E+01	3.69E+02	-2.36E+02	0.087
			7.917E-01	3.753E-03	-6.950E-03	1.601E-04	5.981E-01	1.735E+00	2.58E+01	3.74E+02	3.10E+02	0.099
		100	7.917E-01	6.544E-01	-6.950E-03	1.601E-04	5.748E-01	1.330E+00	2.58E+01	3.59E+02	2.37E+02	0.086
161	2	105	-7.917E-01	6.469E-01	6.950E-03	-1.601E-04	-6.215E-01	-1.333E+00	2.58E+01	-3.88E+02	-2.38E+02	0.091
			7.154E-01	-3.342E-03	-1.870E-02	6.689E-05	-5.985E-01	1.732E+00	2.33E+01	-3.74E+02	3.09E+02	0.098
		100	7.154E-01	6.473E-01	-1.870E-02	6.689E-05	-6.072E-01	1.323E+00	2.33E+01	-3.80E+02	2.36E+02	0.089
161	3	105	2.238E+00	2.622E+00	2.086E-02	1.172E-02	-9.693E-04	1.780E+00	-7.29E+01	-6.06E-01	3.18E+02	0.054
			3.745E+00	1.971E+00	-4.788E-03	1.194E-02	5.096E-03	2.378E+00	1.22E+02	3.19E+00	4.25E+02	0.076
		100	3.745E+00	2.622E+00	-4.788E-03	1.194E-02	-1.011E-02	3.148E+00	1.22E+02	-6.32E+00	5.62E+02	0.096
161	4	105	-3.745E+00	-1.321E+00	4.788E-03	-1.194E-02	-3.068E-02	-4.434E+00	1.22E+02	-1.92E+01	-7.92E+02	0.130
			-2.238E+00	-1.971E+00	-2.086E-02	-1.172E-02	-5.516E-03	1.089E+00	-7.29E+01	-3.45E+00	1.94E+02	0.038
		100	-2.238E+00	-1.320E+00	-2.086E-02	-1.172E-02	-2.237E-02	-4.946E-01	-7.29E+01	-1.40E+01	-8.83E+01	0.024
162	1	100	-7.151E-01	-6.467E-01	3.278E-01	-6.689E-05	6.072E-01	-1.323E+00	2.33E+01	3.80E+02	-2.36E+02	0.089
			7.920E-01	1.306E+00	3.022E-01	1.601E-04	1.649E-01	1.141E-01	2.58E+01	1.03E+02	2.04E+01	0.021
		10	7.920E-01	1.956E+00	3.022E-01	1.601E-04	1.482E-01	-1.914E+00	2.58E+01	9.27E+01	-3.42E+02	0.064
162	2	100	-7.920E-01	-6.551E-01	-3.022E-01	-1.601E-04	-5.748E-01	-1.330E+00	2.58E+01	-3.59E+02	-2.37E+02	0.086
			7.151E-01	1.297E+00	-3.278E-01	6.689E-05	-2.295E-01	9.819E-02	2.33E+01	-1.43E+02	1.75E+01	0.026
		10	7.151E-01	1.948E+00	-3.278E-01	6.689E-05	-2.449E-01	-1.941E+00	2.33E+01	-1.53E+02	-3.47E+02	0.073
162	3	100	2.004E+00	1.339E+00	2.215E-02	1.172E-02	2.237E-02	4.946E-01	-6.53E+01	1.40E+01	8.83E+01	0.023
			3.511E+00	3.291E+00	-3.502E-03	1.194E-02	-1.608E-02	4.414E+00	1.14E+02	-1.01E+01	7.88E+02	0.127
		10	3.511E+00	3.942E+00	-3.502E-03	1.194E-02	-2.077E-02	4.867E+00	1.14E+02	-1.30E+01	8.69E+02	0.138
162	4	100	-3.511E+00	-2.641E+00	3.502E-03	-1.194E-02	1.011E-02	-3.148E+00	1.14E+02	6.32E+00	-5.62E+02	0.095
			-2.004E+00	-6.881E-01	-2.215E-02	-1.172E-02	-4.847E-02	-4.202E+00	-6.53E+01	-3.03E+01	-7.50E+02	0.117
		10	-2.004E+00	-3.739E-02	-2.215E-02	-1.172E-02	-7.585E-02	-8.722E+00	-6.53E+01	-4.74E+01	-1.56E+03	0.232
163	1	33	9.529E-02	3.563E+00	5.770E-01	-1.921E-05	0.000E+00	0.000E+00	-3.10E+00	0.00E+00	0.00E+00	0.000
			-7.264E-02	-2.260E+00	5.770E-01	7.150E-05	7.213E-01	3.726E+00	-2.37E+00	4.51E+02	6.65E+02	0.155
		106	-7.264E-02	-1.096E+00	5.770E-01	7.150E-05	1.443E+00	5.996E+00	-2.37E+00	9.02E+02	1.07E+03	0.274
163	2	33	7.264E-02	3.425E+00	-5.770E-01	-7.150E-05	0.000E+00	0.000E+00	-2.37E+00	0.00E+00	0.00E+00	0.000
			-9.529E-02	-2.398E+00	-5.770E-01	1.921E-05	-7.213E-01	3.553E+00	-3.10E+00	-4.51E+02	6.34E+02	0.151
		106	-9.529E-02	-1.234E+00	-5.770E-01	1.921E-05	-1.443E+00	5.651E+00	-3.10E+00	-9.02E+02	1.01E+03	0.266
163	3	33	3.346E-01	3.511E+00	3.576E-03	3.867E-03	0.000E+00	0.000E+00	-1.09E+01	0.00E+00	0.00E+00	0.002
			1.666E-01	-2.312E+00	3.576E-03	3.958E-03	4.470E-03	3.660E+00	5.43E+00	2.79E+00	6.54E+02	0.092
		106	1.666E-01	-1.148E+00	3.576E-03	3.958E-03	8.939E-03	5.865E+00	5.43E+00	5.59E+00	1.05E+03	0.147
163	4	33	-1.666E-01	3.477E+00	-3.576E-03	-3.958E-03	0.000E+00	0.000E+00	5.43E+00	0.00E+00	0.00E+00	0.001
			-3.346E-01	-2.346E+00	-3.576E-03	-3.867E-03	-4.470E-03	3.618E+00	-1.09E+01	-2.79E+00	6.46E+02	0.092
		106	-3.346E-01	-1.181E+00	-3.576E-03	-3.867E-03	-8.939E-03	5.781E+00	-1.09E+01	-5.59E+00	1.03E+03	0.146
164	1	106	9.371E-02	1.165E+00	1.673E-05	-1.921E-05	1.443E+00	-5.651E+00	-3.05E+00	9.02E+02	-1.01E+03	0.266
			-7.423E-02	6.581E-05	1.673E-05	7.150E-05	1.443E+00	6.723E+00	-2.42E+00	9.02E+02	1.20E+03	0.292
		101	-7.423E-02	1.165E+00	1.673E-05	7.150E-05	1.443E+00	5.996E+00	-2.42E+00	9.02E+02	1.07E+03	0.274
164	2	106	7.423E-02	1.165E+00	-1.673E-05	-7.150E-05	-1.443E+00	-5.996E+00	-2.42E+00	-9.02E+02	-1.07E+03	0.274
			-9.371E-02	-6.581E-05	-1.673E-05	1.921E-05	-1.443E+00	6.378E+00	-3.05E+00	-9.02E+02	1.14E+03	0.284

		101	-9.371E-02	1.165E+00	-1.673E-05	1.921E-05	-1.443E+00	5.651E+00	-3.05E+00	-9.02E+02	1.01E+03	0.266
164	3	106	8.007E-01	1.194E+00	4.055E-03	3.867E-03	8.939E-03	-5.781E+00	-2.61E+01	5.59E+00	-1.03E+03	0.148
			6.327E-01	2.917E-02	4.055E-03	3.958E-03	8.956E-03	6.563E+00	2.06E+01	5.60E+00	1.17E+03	0.166
		101	6.327E-01	1.194E+00	4.055E-03	3.958E-03	1.149E-02	5.857E+00	2.06E+01	7.18E+00	1.05E+03	0.149
164	4	106	-6.327E-01	1.135E+00	-4.055E-03	-3.958E-03	-8.939E-03	-5.865E+00	2.06E+01	-5.59E+00	-1.05E+03	0.149
			-8.007E-01	-2.917E-02	-4.055E-03	-3.867E-03	-8.956E-03	6.539E+00	-2.61E+01	-5.60E+00	1.17E+03	0.167
		101	-8.007E-01	1.135E+00	-4.055E-03	-3.867E-03	-1.149E-02	5.789E+00	-2.61E+01	-7.18E+00	1.03E+03	0.148
165	1	101	9.235E-02	-1.096E+00	5.770E-01	-1.921E-05	1.443E+00	-5.651E+00	-3.01E+00	9.02E+02	-1.01E+03	0.266
			-7.558E-02	2.398E+00	5.770E-01	7.150E-05	7.213E-01	3.726E+00	-2.46E+00	4.51E+02	6.65E+02	0.155
		13	-7.558E-02	3.563E+00	5.770E-01	7.150E-05	0.000E+00	0.000E+00	-2.46E+00	0.00E+00	0.00E+00	0.000
165	2	101	7.558E-02	-1.234E+00	-5.770E-01	-7.150E-05	-1.443E+00	-5.996E+00	-2.46E+00	-9.02E+02	-1.07E+03	0.274
			-9.235E-02	2.260E+00	-5.770E-01	1.921E-05	-7.213E-01	3.553E+00	-3.01E+00	-4.51E+02	6.34E+02	0.151
		13	-9.235E-02	3.425E+00	-5.770E-01	1.921E-05	0.000E+00	0.000E+00	-3.01E+00	0.00E+00	0.00E+00	0.000
165	3	101	1.267E+00	-1.151E+00	4.594E-03	3.867E-03	1.149E-02	-5.789E+00	-4.13E+01	7.18E+00	-1.03E+03	0.150
			1.099E+00	2.343E+00	4.594E-03	3.958E-03	5.743E-03	3.657E+00	3.58E+01	3.59E+00	6.53E+02	0.096
		13	1.099E+00	3.508E+00	4.594E-03	3.958E-03	0.000E+00	0.000E+00	3.58E+01	0.00E+00	0.00E+00	0.005
165	4	101	-1.099E+00	-1.178E+00	-4.594E-03	-3.958E-03	-1.149E-02	-5.857E+00	3.58E+01	-7.18E+00	-1.05E+03	0.151
			-1.267E+00	2.316E+00	-4.594E-03	-3.867E-03	-5.743E-03	3.622E+00	-4.13E+01	-3.59E+00	6.47E+02	0.096
		13	-1.267E+00	3.480E+00	-4.594E-03	-3.867E-03	0.000E+00	0.000E+00	-4.13E+01	0.00E+00	0.00E+00	0.006
166	1	36	1.206E-01	3.582E+00	5.843E-01	2.972E-05	0.000E+00	0.000E+00	-3.93E+00	0.00E+00	0.00E+00	0.001
			-1.016E-01	-2.241E+00	5.843E-01	3.264E-05	7.304E-01	3.750E+00	-3.31E+00	4.56E+02	6.70E+02	0.157
		107	-1.016E-01	-1.076E+00	5.843E-01	3.264E-05	1.461E+00	6.044E+00	-3.31E+00	9.13E+02	1.08E+03	0.277
166	2	36	1.016E-01	3.405E+00	-5.843E-01	-3.264E-05	0.000E+00	0.000E+00	-3.31E+00	0.00E+00	0.00E+00	0.000
			-1.206E-01	-2.418E+00	-5.843E-01	-2.972E-05	-7.304E-01	3.529E+00	-3.93E+00	-4.56E+02	6.30E+02	0.151
		107	-1.206E-01	-1.253E+00	-5.843E-01	-2.972E-05	-1.461E+00	5.602E+00	-3.93E+00	-9.13E+02	1.00E+03	0.266
166	3	36	1.364E+00	3.515E+00	1.186E-03	2.482E-04	0.000E+00	0.000E+00	-4.44E+01	0.00E+00	0.00E+00	0.006
			1.141E+00	-2.308E+00	1.186E-03	2.511E-04	1.482E-03	3.666E+00	3.72E+01	9.26E-01	6.55E+02	0.096
		107	1.141E+00	-1.143E+00	1.186E-03	2.511E-04	2.964E-03	5.877E+00	3.72E+01	1.85E+00	1.05E+03	0.151
166	4	36	-1.141E+00	3.472E+00	-1.186E-03	-2.511E-04	0.000E+00	0.000E+00	3.72E+01	0.00E+00	0.00E+00	0.005
			-1.364E+00	-2.351E+00	-1.186E-03	-2.482E-04	-1.482E-03	3.613E+00	-4.44E+01	-9.26E-01	6.45E+02	0.096
		107	-1.364E+00	-1.186E+00	-1.186E-03	-2.482E-04	-2.964E-03	5.770E+00	-4.44E+01	-1.85E+00	1.03E+03	0.150
167	1	107	1.213E-01	1.165E+00	2.206E-05	2.972E-05	1.461E+00	-5.602E+00	-3.95E+00	9.13E+02	-1.00E+03	0.266
			-1.009E-01	8.061E-05	2.206E-05	3.264E-05	1.461E+00	6.772E+00	-3.29E+00	9.13E+02	1.21E+03	0.295
		102	-1.009E-01	1.165E+00	2.206E-05	3.264E-05	1.461E+00	6.044E+00	-3.29E+00	9.13E+02	1.08E+03	0.277
167	2	107	1.009E-01	1.165E+00	-2.206E-05	-3.264E-05	-1.461E+00	-6.044E+00	-3.29E+00	-9.13E+02	-1.08E+03	0.277
			-1.213E-01	-8.061E-05	-2.206E-05	-2.972E-05	-1.461E+00	6.330E+00	-3.95E+00	-9.13E+02	1.13E+03	0.284
		102	-1.213E-01	1.165E+00	-2.206E-05	-2.972E-05	-1.461E+00	5.602E+00	-3.95E+00	-9.13E+02	1.00E+03	0.266
167	3	107	8.753E-01	1.198E+00	4.195E-04	2.482E-04	2.964E-03	-5.770E+00	-2.85E+01	1.85E+00	-1.03E+03	0.147
			6.531E-01	3.364E-02	4.195E-04	2.511E-04	2.880E-03	6.568E+00	2.13E+01	1.80E+00	1.17E+03	0.166
		102	6.531E-01	1.198E+00	4.195E-04	2.511E-04	2.890E-03	5.859E+00	2.13E+01	1.81E+00	1.05E+03	0.149
167	4	107	-6.531E-01	1.131E+00	-4.195E-04	-2.511E-04	-2.964E-03	-5.877E+00	2.13E+01	-1.85E+00	-1.05E+03	0.149
			-8.753E-01	-3.364E-02	-4.195E-04	-2.482E-04	-2.880E-03	6.534E+00	-2.85E+01	-1.80E+00	1.17E+03	0.166
		102	-8.753E-01	1.131E+00	-4.195E-04	-2.482E-04	-2.890E-03	5.787E+00	-2.85E+01	-1.81E+00	1.03E+03	0.148
168	1	102	1.221E-01	-1.076E+00	5.843E-01	2.972E-05	1.461E+00	-5.602E+00	-3.98E+00	9.13E+02	-1.00E+03	0.266
			-1.001E-01	2.418E+00	5.843E-01	3.264E-05	7.304E-01	3.750E+00	-3.26E+00	4.56E+02	6.70E+02	0.157
		16	-1.001E-01	3.582E+00	5.843E-01	3.264E-05	0.000E+00	0.000E+00	-3.26E+00	0.00E+00	0.00E+00	0.000

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168	2	102	1.001E-01	-1.253E+00	-5.843E-01	-3.264E-05	-1.461E+00	-6.044E+00	-3.26E+00	-9.13E+02	-1.08E+03	0.277
			-1.221E-01	2.241E+00	-5.843E-01	-2.972E-05	-7.304E-01	3.529E+00	-3.98E+00	-4.56E+02	6.30E+02	0.151
		16	-1.221E-01	3.405E+00	-5.843E-01	-2.972E-05	0.000E+00	0.000E+00	-3.98E+00	0.00E+00	0.00E+00	0.001
168	3	102	3.868E-01	-1.150E+00	1.156E-03	2.482E-04	2.890E-03	-5.787E+00	-1.26E+01	1.81E+00	-1.03E+03	0.146
			1.646E-01	2.343E+00	1.156E-03	2.511E-04	1.445E-03	3.657E+00	5.36E+00	9.03E-01	6.53E+02	0.092
		16	1.646E-01	3.508E+00	1.156E-03	2.511E-04	0.000E+00	0.000E+00	5.36E+00	0.00E+00	0.00E+00	0.001
168	4	102	-1.646E-01	-1.179E+00	-1.156E-03	-2.511E-04	-2.890E-03	-5.859E+00	5.36E+00	-1.81E+00	-1.05E+03	0.146
			-3.868E-01	2.315E+00	-1.156E-03	-2.482E-04	-1.445E-03	3.622E+00	-1.26E+01	-9.03E-01	6.47E+02	0.092
		16	-3.868E-01	3.480E+00	-1.156E-03	-2.482E-04	0.000E+00	0.000E+00	-1.26E+01	0.00E+00	0.00E+00	0.002
169	1	39	9.304E-02	3.555E+00	5.890E-01	1.152E-04	0.000E+00	0.000E+00	-3.03E+00	0.00E+00	0.00E+00	0.000
			-7.489E-02	-2.268E+00	5.890E-01	2.081E-05	7.363E-01	3.716E+00	-2.44E+00	4.60E+02	6.64E+02	0.156
		108	-7.489E-02	-1.103E+00	5.890E-01	2.081E-05	1.473E+00	5.977E+00	-2.44E+00	9.20E+02	1.07E+03	0.276
169	2	39	7.489E-02	3.432E+00	-5.890E-01	-2.081E-05	0.000E+00	0.000E+00	-2.44E+00	0.00E+00	0.00E+00	0.000
			-9.304E-02	-2.391E+00	-5.890E-01	-1.152E-04	-7.363E-01	3.563E+00	-3.03E+00	-4.60E+02	6.36E+02	0.153
		108	-9.304E-02	-1.226E+00	-5.890E-01	-1.152E-04	-1.473E+00	5.669E+00	-3.03E+00	-9.20E+02	1.01E+03	0.269
169	3	39	3.326E-01	3.511E+00	3.572E-03	3.584E-03	0.000E+00	0.000E+00	-1.08E+01	0.00E+00	0.00E+00	0.002
			1.647E-01	-2.312E+00	3.572E-03	3.490E-03	4.465E-03	3.660E+00	5.36E+00	2.79E+00	6.54E+02	0.092
		108	1.647E-01	-1.148E+00	3.572E-03	3.490E-03	8.931E-03	5.865E+00	5.36E+00	5.58E+00	1.05E+03	0.147
169	4	39	-1.647E-01	3.477E+00	-3.572E-03	-3.490E-03	0.000E+00	0.000E+00	5.36E+00	0.00E+00	0.00E+00	0.001
			-3.326E-01	-2.346E+00	-3.572E-03	-3.584E-03	-4.465E-03	3.618E+00	-1.08E+01	-2.79E+00	6.46E+02	0.092
		108	-3.326E-01	-1.181E+00	-3.572E-03	-3.584E-03	-8.931E-03	5.781E+00	-1.08E+01	-5.58E+00	1.03E+03	0.146
170	1	108	9.308E-02	1.165E+00	2.556E-05	1.152E-04	1.473E+00	-5.669E+00	-3.03E+00	9.20E+02	-1.01E+03	0.269
			-7.485E-02	7.678E-05	2.556E-05	2.081E-05	1.473E+00	6.705E+00	-2.44E+00	9.20E+02	1.20E+03	0.294
		103	-7.485E-02	1.165E+00	2.556E-05	2.081E-05	1.473E+00	5.977E+00	-2.44E+00	9.20E+02	1.07E+03	0.276
170	2	108	7.485E-02	1.165E+00	-2.556E-05	-2.081E-05	-1.473E+00	-5.977E+00	-2.44E+00	-9.20E+02	-1.07E+03	0.276
			-9.308E-02	-7.678E-05	-2.556E-05	-1.152E-04	-1.473E+00	6.397E+00	-3.03E+00	-9.20E+02	1.14E+03	0.287
		103	-9.308E-02	1.165E+00	-2.556E-05	-1.152E-04	-1.473E+00	5.669E+00	-3.03E+00	-9.20E+02	1.01E+03	0.269
170	3	108	7.951E-01	1.194E+00	4.084E-03	3.584E-03	8.931E-03	-5.781E+00	-2.59E+01	5.58E+00	-1.03E+03	0.148
			6.272E-01	2.969E-02	4.084E-03	3.490E-03	8.391E-03	6.564E+00	2.04E+01	5.24E+00	1.17E+03	0.166
		103	6.272E-01	1.194E+00	4.084E-03	3.490E-03	1.064E-02	5.860E+00	2.04E+01	6.65E+00	1.05E+03	0.149
170	4	108	-6.272E-01	1.135E+00	-4.084E-03	-3.490E-03	-8.931E-03	-5.865E+00	2.04E+01	-5.58E+00	-1.05E+03	0.149
			-7.951E-01	-2.969E-02	-4.084E-03	-3.584E-03	-8.391E-03	6.538E+00	-2.59E+01	-5.24E+00	1.17E+03	0.166
		103	-7.951E-01	1.135E+00	-4.084E-03	-3.584E-03	-1.064E-02	5.787E+00	-2.59E+01	-6.65E+00	1.03E+03	0.148
171	1	103	9.321E-02	-1.103E+00	5.890E-01	1.152E-04	1.473E+00	-5.669E+00	-3.04E+00	9.20E+02	-1.01E+03	0.269
			-7.472E-02	2.391E+00	5.890E-01	2.081E-05	7.363E-01	3.716E+00	-2.43E+00	4.60E+02	6.64E+02	0.156
		19	-7.472E-02	3.555E+00	5.890E-01	2.081E-05	0.000E+00	0.000E+00	-2.43E+00	0.00E+00	0.00E+00	0.000
171	2	103	7.472E-02	-1.226E+00	-5.890E-01	-2.081E-05	-1.473E+00	-5.977E+00	-2.43E+00	-9.20E+02	-1.07E+03	0.276
			-9.321E-02	2.268E+00	-5.890E-01	-1.152E-04	-7.363E-01	3.562E+00	-3.04E+00	-4.60E+02	6.36E+02	0.153
		19	-9.321E-02	3.432E+00	-5.890E-01	-1.152E-04	0.000E+00	0.000E+00	-3.04E+00	0.00E+00	0.00E+00	0.000
171	3	103	1.258E+00	-1.150E+00	4.255E-03	3.584E-03	1.064E-02	-5.787E+00	-4.10E+01	6.65E+00	-1.03E+03	0.150
			1.090E+00	2.344E+00	4.255E-03	3.490E-03	5.319E-03	3.658E+00	3.55E+01	3.32E+00	6.53E+02	0.096
		19	1.090E+00	3.508E+00	4.255E-03	3.490E-03	0.000E+00	0.000E+00	3.55E+01	0.00E+00	0.00E+00	0.005
171	4	103	-1.090E+00	-1.179E+00	-4.255E-03	-3.490E-03	-1.064E-02	-5.860E+00	3.55E+01	-6.65E+00	-1.05E+03	0.151
			-1.258E+00	2.315E+00	-4.255E-03	-3.584E-03	-5.319E-03	3.621E+00	-4.10E+01	-3.32E+00	6.47E+02	0.096
		19	-1.258E+00	3.479E+00	-4.255E-03	-3.584E-03	0.000E+00	0.000E+00	-4.10E+01	0.00E+00	0.00E+00	0.006

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172	1	42	-7.085E-01	1.958E+00	3.096E-01	2.733E-04	2.339E-01	1.954E+00	2.31E+01	1.46E+02	3.49E+02	0.072
			7.991E-01	-1.295E+00	3.353E-01	-1.013E-04	1.853E-01	1.284E-01	2.60E+01	1.16E+02	2.29E+01	0.023
		109	7.991E-01	-6.441E-01	3.353E-01	-1.013E-04	6.044E-01	1.340E+00	2.60E+01	3.78E+02	2.39E+02	0.089
172	2	42	-7.991E-01	1.945E+00	-3.353E-01	1.013E-04	-1.380E-01	1.897E+00	2.60E+01	-8.62E+01	3.39E+02	0.063
			7.085E-01	-1.307E+00	-3.096E-01	-2.733E-04	-2.491E-01	8.628E-02	2.31E+01	-1.56E+02	1.54E+01	0.027
		109	7.085E-01	-6.566E-01	-3.096E-01	-2.733E-04	-6.361E-01	1.314E+00	2.31E+01	-3.98E+02	2.35E+02	0.091
172	3	42	2.492E+00	3.955E+00	-5.019E-03	3.677E-03	7.770E-02	1.004E+01	-8.12E+01	4.86E+01	1.79E+03	0.267
			3.999E+00	7.025E-01	2.066E-02	3.302E-03	-1.167E-02	5.716E+00	1.30E+02	-7.29E+00	1.02E+03	0.161
		109	3.999E+00	1.353E+00	2.066E-02	3.302E-03	-4.734E-03	4.431E+00	1.30E+02	-2.96E+00	7.91E+02	0.128
172	4	42	-3.999E+00	-5.177E-02	-2.066E-02	-3.302E-03	1.818E-02	-6.187E+00	1.30E+02	1.14E+01	-1.10E+03	0.173
			-2.492E+00	-3.305E+00	5.019E-03	-3.677E-03	-5.211E-02	-5.501E+00	-8.12E+01	-3.26E+01	-9.82E+02	0.152
		109	-2.492E+00	-2.654E+00	5.019E-03	-3.677E-03	-2.694E-02	-1.777E+00	-8.12E+01	-1.68E+01	-3.17E+02	0.058
173	1	109	-7.092E-01	6.573E-01	-1.192E-02	2.733E-04	6.361E-01	-1.314E+00	2.31E+01	3.98E+02	-2.35E+02	0.091
			7.984E-01	7.247E-03	1.376E-02	-1.013E-04	6.216E-01	1.738E+00	2.60E+01	3.88E+02	3.10E+02	0.101
		104	7.984E-01	6.579E-01	1.376E-02	-1.013E-04	6.387E-01	1.330E+00	2.60E+01	3.99E+02	2.38E+02	0.092
173	2	109	-7.984E-01	6.434E-01	-1.376E-02	1.013E-04	-6.044E-01	-1.340E+00	2.60E+01	-3.78E+02	-2.39E+02	0.089
			7.092E-01	-6.597E-03	1.192E-02	-2.733E-04	-6.212E-01	1.728E+00	2.31E+01	-3.88E+02	3.09E+02	0.100
		104	7.092E-01	6.441E-01	1.192E-02	-2.733E-04	-6.062E-01	1.322E+00	2.31E+01	-3.79E+02	2.36E+02	0.089
173	3	109	2.263E+00	2.637E+00	-6.586E-03	3.677E-03	2.694E-02	1.777E+00	-7.37E+01	1.68E+01	3.17E+02	0.057
			3.770E+00	1.987E+00	1.909E-02	3.302E-03	4.283E-03	2.355E+00	1.23E+02	2.68E+00	4.21E+02	0.076
		104	3.770E+00	2.638E+00	1.909E-02	3.302E-03	2.192E-02	3.189E+00	1.23E+02	1.37E+01	5.70E+02	0.098
173	4	109	-3.770E+00	-1.336E+00	-1.909E-02	-3.302E-03	4.734E-03	-4.431E+00	1.23E+02	2.96E+00	-7.91E+02	0.127
			-2.263E+00	-1.986E+00	6.586E-03	-3.677E-03	-3.864E-03	1.111E+00	-7.37E+01	-2.41E+00	1.98E+02	0.038
		104	-2.263E+00	-1.336E+00	6.586E-03	-3.677E-03	1.060E-02	-5.370E-01	-7.37E+01	6.62E+00	-9.59E+01	0.024
174	1	104	-7.098E-01	-6.432E-01	3.079E-01	2.733E-04	6.062E-01	-1.322E+00	2.31E+01	3.79E+02	-2.36E+02	0.089
			7.977E-01	1.310E+00	3.335E-01	-1.013E-04	2.539E-01	1.195E-01	2.60E+01	1.59E+02	2.13E+01	0.029
		22	7.977E-01	1.960E+00	3.335E-01	-1.013E-04	2.276E-01	-1.905E+00	2.60E+01	1.42E+02	-3.40E+02	0.071
174	2	104	-7.977E-01	-6.589E-01	-3.335E-01	1.013E-04	-6.387E-01	-1.330E+00	2.60E+01	-3.99E+02	-2.38E+02	0.092
			7.098E-01	1.294E+00	-3.079E-01	-2.733E-04	-1.893E-01	9.197E-02	2.31E+01	-1.18E+02	1.64E+01	0.022
		22	7.098E-01	1.945E+00	-3.079E-01	-2.733E-04	-1.309E-01	-1.952E+00	2.31E+01	-8.18E+01	-3.48E+02	0.063
174	3	104	2.034E+00	1.354E+00	-5.770E-03	3.677E-03	-1.060E-02	5.370E-01	-6.63E+01	-6.62E+00	9.59E+01	0.023
			3.542E+00	3.306E+00	1.991E-02	3.302E-03	4.436E-02	4.475E+00	1.15E+02	2.77E+01	7.99E+02	0.131
		22	3.542E+00	3.957E+00	1.991E-02	3.302E-03	6.871E-02	4.947E+00	1.15E+02	4.29E+01	8.83E+02	0.145
174	4	104	-3.542E+00	-2.656E+00	-1.991E-02	-3.302E-03	-2.192E-02	-3.189E+00	1.15E+02	-1.37E+01	-5.70E+02	0.097
			-2.034E+00	-7.031E-01	5.770E-03	-3.677E-03	2.026E-02	-4.263E+00	-6.63E+01	1.27E+01	-7.61E+02	0.117
		22	-2.034E+00	-5.238E-02	5.770E-03	-3.677E-03	2.800E-02	-8.803E+00	-6.63E+01	1.75E+01	-1.57E+03	0.230
180	1	70	7.938E-01	1.955E+00	3.140E-01	-1.119E-04	2.011E-01	1.939E+00	-2.59E+01	1.26E+02	3.46E+02	0.069
			-7.228E-01	-1.299E+00	3.253E-01	2.143E-04	2.055E-01	1.126E-01	-2.35E+01	1.28E+02	2.01E+01	0.024
		90	-7.228E-01	-6.484E-01	3.253E-01	2.143E-04	6.121E-01	1.331E+00	-2.35E+01	3.83E+02	2.38E+02	0.089
180	2	70	7.228E-01	1.950E+00	-3.253E-01	-2.143E-04	-1.607E-01	1.918E+00	-2.35E+01	-1.00E+02	3.43E+02	0.065
			-7.938E-01	-1.304E+00	-3.140E-01	1.119E-04	-2.317E-01	9.837E-02	-2.59E+01	-1.45E+02	1.76E+01	0.026
		90	-7.938E-01	-6.537E-01	-3.140E-01	1.119E-04	-6.242E-01	1.321E+00	-2.59E+01	-3.90E+02	2.36E+02	0.091
180	3	70	2.496E+00	3.589E+00	4.331E-03	4.163E-03	5.441E-02	7.884E+00	-8.13E+01	3.40E+01	1.41E+03	0.212
			9.793E-01	3.348E-01	1.563E-02	4.489E-03	8.981E-03	4.016E+00	3.19E+01	5.61E+00	7.17E+02	0.105
		90	9.793E-01	9.855E-01	1.563E-02	4.489E-03	4.731E-03	3.191E+00	3.19E+01	2.96E+00	5.70E+02	0.084
180	4	70	-9.793E-01	3.159E-01	-1.563E-02	-4.489E-03	-1.405E-02	-4.028E+00	3.19E+01	-8.78E+00	-7.19E+02	0.106

			-2.496E+00	-2.938E+00	-4.331E-03	-4.163E-03	-3.521E-02	-3.805E+00	-8.13E+01	-2.20E+01	-6.79E+02	0.109
		90	-2.496E+00	-2.288E+00	-4.331E-03	-4.163E-03	-1.683E-02	-5.386E-01	-8.13E+01	-1.05E+01	-9.62E+01	0.026
181	1	90	7.942E-01	6.539E-01	-5.032E-03	-1.119E-04	6.242E-01	-1.321E+00	-2.59E+01	3.90E+02	-2.36E+02	0.091
			-7.224E-01	2.492E-03	6.272E-03	2.143E-04	6.199E-01	1.735E+00	-2.35E+01	3.87E+02	3.10E+02	0.100
		95	-7.224E-01	6.532E-01	6.272E-03	2.143E-04	6.277E-01	1.330E+00	-2.35E+01	3.92E+02	2.38E+02	0.091
181	2	90	7.224E-01	6.482E-01	-6.272E-03	-2.143E-04	-6.121E-01	-1.331E+00	-2.35E+01	-3.83E+02	-2.38E+02	0.089
			-7.942E-01	-3.219E-03	5.032E-03	1.119E-04	-6.179E-01	1.731E+00	-2.59E+01	-3.86E+02	3.09E+02	0.100
		95	-7.942E-01	6.475E-01	5.032E-03	1.119E-04	-6.116E-01	1.324E+00	-2.59E+01	-3.82E+02	2.36E+02	0.090
181	3	90	2.831E+00	2.268E+00	2.981E-03	4.163E-03	1.683E-02	5.386E-01	-9.22E+01	1.05E+01	9.62E+01	0.028
			1.314E+00	1.617E+00	1.428E-02	4.489E-03	2.988E-03	1.891E+00	4.28E+01	1.87E+00	3.38E+02	0.053
		95	1.314E+00	2.268E+00	1.428E-02	4.489E-03	1.923E-02	3.506E+00	4.28E+01	1.20E+01	6.26E+02	0.095
181	4	90	-1.314E+00	-9.662E-01	-1.428E-02	-4.489E-03	-4.731E-03	-3.191E+00	4.28E+01	-2.96E+00	-5.70E+02	0.085
			-2.831E+00	-1.618E+00	-2.981E-03	-4.163E-03	-9.611E-04	1.575E+00	-9.22E+01	-6.01E-01	2.81E+02	0.052
		95	-2.831E+00	-9.669E-01	-2.981E-03	-4.163E-03	-3.076E-03	-8.518E-01	-9.22E+01	-1.92E+00	-1.52E+02	0.034
182	1	95	7.947E-01	-6.467E-01	3.127E-01	-1.119E-04	6.116E-01	-1.324E+00	-2.59E+01	3.82E+02	-2.36E+02	0.090
			-7.219E-01	1.305E+00	3.240E-01	2.143E-04	2.368E-01	1.146E-01	-2.35E+01	1.48E+02	2.05E+01	0.027
		50	-7.219E-01	1.955E+00	3.240E-01	2.143E-04	1.985E-01	-1.914E+00	-2.35E+01	1.24E+02	-3.42E+02	0.068
182	2	95	7.219E-01	-6.540E-01	-3.240E-01	-2.143E-04	-6.277E-01	-1.330E+00	-2.35E+01	-3.92E+02	-2.38E+02	0.091
			-7.947E-01	1.297E+00	-3.127E-01	1.119E-04	-2.065E-01	1.001E-01	-2.59E+01	-1.29E+02	1.79E+01	0.024
		50	-7.947E-01	1.948E+00	-3.127E-01	1.119E-04	-1.541E-01	-1.937E+00	-2.59E+01	-9.63E+01	-3.46E+02	0.065
182	3	95	3.168E+00	9.842E-01	4.541E-03	4.163E-03	3.076E-03	8.518E-01	-1.03E+02	1.92E+00	1.52E+02	0.036
			1.651E+00	2.935E+00	1.585E-02	4.489E-03	3.866E-02	4.329E+00	5.38E+01	2.42E+01	7.73E+02	0.118
		50	1.651E+00	3.586E+00	1.585E-02	4.489E-03	5.835E-02	4.339E+00	5.38E+01	3.65E+01	7.75E+02	0.120
182	4	95	-1.651E+00	-2.285E+00	-1.585E-02	-4.489E-03	-1.923E-02	-3.506E+00	5.38E+01	-1.20E+01	-6.26E+02	0.096
			-3.168E+00	-3.335E-01	-4.541E-03	-4.163E-03	-8.372E-03	-4.114E+00	-1.03E+02	-5.23E+00	-7.35E+02	0.117
		50	-3.168E+00	3.172E-01	-4.541E-03	-4.163E-03	-1.393E-02	-8.190E+00	-1.03E+02	-8.71E+00	-1.46E+03	0.219
183	1	73	-7.561E-02	3.563E+00	5.849E-01	-1.721E-05	0.000E+00	0.000E+00	2.46E+00	0.00E+00	0.00E+00	0.000
			8.629E-02	-2.260E+00	5.849E-01	7.143E-05	7.311E-01	3.726E+00	2.81E+00	4.57E+02	6.65E+02	0.156
		91	8.629E-02	-1.096E+00	5.849E-01	7.143E-05	1.462E+00	5.995E+00	2.81E+00	9.14E+02	1.07E+03	0.276
183	2	73	-8.629E-02	3.425E+00	-5.849E-01	-7.143E-05	0.000E+00	0.000E+00	2.81E+00	0.00E+00	0.00E+00	0.000
			7.561E-02	-2.398E+00	-5.849E-01	1.721E-05	-7.311E-01	3.553E+00	2.46E+00	-4.57E+02	6.35E+02	0.152
		91	7.561E-02	-1.234E+00	-5.849E-01	1.721E-05	-1.462E+00	5.651E+00	2.46E+00	-9.14E+02	1.01E+03	0.267
183	3	73	2.910E-01	3.511E+00	3.894E-03	3.945E-03	0.000E+00	0.000E+00	-9.48E+00	0.00E+00	0.00E+00	0.001
			4.529E-01	-2.312E+00	3.894E-03	4.034E-03	4.868E-03	3.660E+00	1.48E+01	3.04E+00	6.54E+02	0.093
		91	4.529E-01	-1.148E+00	3.894E-03	4.034E-03	9.736E-03	5.865E+00	1.48E+01	6.09E+00	1.05E+03	0.148
183	4	73	-4.529E-01	3.477E+00	-3.894E-03	-4.034E-03	0.000E+00	0.000E+00	1.48E+01	0.00E+00	0.00E+00	0.002
			-2.910E-01	-2.346E+00	-3.894E-03	-3.945E-03	-4.868E-03	3.618E+00	-9.48E+00	-3.04E+00	6.46E+02	0.091
		91	-2.910E-01	-1.181E+00	-3.894E-03	-3.945E-03	-9.736E-03	5.781E+00	-9.48E+00	-6.09E+00	1.03E+03	0.146
184	1	91	-7.675E-02	1.165E+00	2.401E-05	-1.721E-05	1.462E+00	-5.651E+00	2.50E+00	9.14E+02	-1.01E+03	0.267
			8.515E-02	6.555E-05	2.401E-05	7.143E-05	1.462E+00	6.723E+00	2.77E+00	9.14E+02	1.20E+03	0.294
		96	8.515E-02	1.165E+00	2.401E-05	7.143E-05	1.462E+00	5.995E+00	2.77E+00	9.14E+02	1.07E+03	0.276
184	2	91	-8.515E-02	1.165E+00	-2.401E-05	-7.143E-05	-1.462E+00	-5.995E+00	2.77E+00	-9.14E+02	-1.07E+03	0.276
			7.675E-02	-6.555E-05	-2.401E-05	1.721E-05	-1.462E+00	6.379E+00	2.50E+00	-9.14E+02	1.14E+03	0.285
		96	7.675E-02	1.165E+00	-2.401E-05	1.721E-05	-1.462E+00	5.651E+00	2.50E+00	-9.14E+02	1.01E+03	0.267
184	3	91	9.519E-01	1.194E+00	3.830E-03	3.945E-03	9.736E-03	-5.781E+00	-3.10E+01	6.09E+00	-1.03E+03	0.149
			1.114E+00	2.908E-02	3.830E-03	4.034E-03	6.383E-03	6.563E+00	3.63E+01	3.99E+00	1.17E+03	0.168

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		96	1.114E+00	1.194E+00	3.830E-03	4.034E-03	5.703E-03	5.857E+00	3.63E+01	3.56E+00	1.05E+03	0.151
184	4	91	-1.114E+00	1.136E+00	-3.830E-03	-4.034E-03	-9.736E-03	-5.865E+00	3.63E+01	-6.09E+00	-1.05E+03	0.151
			-9.519E-01	-2.908E-02	-3.830E-03	-3.945E-03	-6.383E-03	6.539E+00	-3.10E+01	-3.99E+00	1.17E+03	0.167
		96	-9.519E-01	1.136E+00	-3.830E-03	-3.945E-03	-5.703E-03	5.789E+00	-3.10E+01	-3.56E+00	1.03E+03	0.148
185	1	96	-7.739E-02	-1.096E+00	5.849E-01	-1.721E-05	1.462E+00	-5.651E+00	2.52E+00	9.14E+02	-1.01E+03	0.267
			8.451E-02	2.398E+00	5.849E-01	7.143E-05	7.311E-01	3.726E+00	2.75E+00	4.57E+02	6.65E+02	0.156
		53	8.451E-02	3.563E+00	5.849E-01	7.143E-05	0.000E+00	0.000E+00	2.75E+00	0.00E+00	0.00E+00	0.000
185	2	96	-8.451E-02	-1.234E+00	-5.849E-01	-7.143E-05	-1.462E+00	-5.995E+00	2.75E+00	-9.14E+02	-1.07E+03	0.276
			7.739E-02	2.260E+00	-5.849E-01	1.721E-05	-7.311E-01	3.553E+00	2.52E+00	-4.57E+02	6.35E+02	0.152
		53	7.739E-02	3.425E+00	-5.849E-01	1.721E-05	0.000E+00	0.000E+00	2.52E+00	0.00E+00	0.00E+00	0.000
185	3	96	1.613E+00	-1.151E+00	2.281E-03	3.945E-03	5.703E-03	-5.789E+00	-5.25E+01	3.56E+00	-1.03E+03	0.151
			1.775E+00	2.343E+00	2.281E-03	4.034E-03	2.851E-03	3.656E+00	5.78E+01	1.78E+00	6.53E+02	0.099
		53	1.775E+00	3.507E+00	2.281E-03	4.034E-03	0.000E+00	0.000E+00	5.78E+01	0.00E+00	0.00E+00	0.008
185	4	96	-1.775E+00	-1.178E+00	-2.281E-03	-4.034E-03	-5.703E-03	-5.857E+00	5.78E+01	-3.56E+00	-1.05E+03	0.154
			-1.613E+00	2.316E+00	-2.281E-03	-3.945E-03	-2.851E-03	3.622E+00	-5.25E+01	-1.78E+00	6.47E+02	0.097
		53	-1.613E+00	3.480E+00	-2.281E-03	-3.945E-03	0.000E+00	0.000E+00	-5.25E+01	0.00E+00	0.00E+00	0.007
186	1	76	-1.067E-01	3.582E+00	5.831E-01	2.971E-05	0.000E+00	0.000E+00	3.48E+00	0.00E+00	0.00E+00	0.000
			1.205E-01	-2.241E+00	5.831E-01	3.266E-05	7.289E-01	3.750E+00	3.93E+00	4.56E+02	6.70E+02	0.157
		92	1.205E-01	-1.076E+00	5.831E-01	3.266E-05	1.458E+00	6.045E+00	3.93E+00	9.11E+02	1.08E+03	0.277
186	2	76	-1.205E-01	3.405E+00	-5.831E-01	-3.266E-05	0.000E+00	0.000E+00	3.93E+00	0.00E+00	0.00E+00	0.001
			1.067E-01	-2.418E+00	-5.831E-01	-2.971E-05	-7.289E-01	3.529E+00	3.48E+00	-4.56E+02	6.30E+02	0.151
		92	1.067E-01	-1.253E+00	-5.831E-01	-2.971E-05	-1.458E+00	5.601E+00	3.48E+00	-9.11E+02	1.00E+03	0.266
186	3	76	1.621E+00	3.515E+00	1.190E-03	2.495E-04	0.000E+00	0.000E+00	-5.28E+01	0.00E+00	0.00E+00	0.007
			1.848E+00	-2.308E+00	1.190E-03	2.524E-04	1.487E-03	3.666E+00	6.02E+01	9.30E-01	6.55E+02	0.099
		92	1.848E+00	-1.143E+00	1.190E-03	2.524E-04	2.974E-03	5.877E+00	6.02E+01	1.86E+00	1.05E+03	0.154
186	4	76	-1.848E+00	3.472E+00	-1.190E-03	-2.524E-04	0.000E+00	0.000E+00	6.02E+01	0.00E+00	0.00E+00	0.008
			-1.621E+00	-2.351E+00	-1.190E-03	-2.495E-04	-1.487E-03	3.612E+00	-5.28E+01	-9.30E-01	6.45E+02	0.097
		92	-1.621E+00	-1.186E+00	-1.190E-03	-2.495E-04	-2.974E-03	5.769E+00	-5.28E+01	-1.86E+00	1.03E+03	0.151
187	1	92	-1.079E-01	1.165E+00	1.783E-05	2.971E-05	1.458E+00	-5.601E+00	3.51E+00	9.11E+02	-1.00E+03	0.266
			1.193E-01	8.107E-05	1.783E-05	3.266E-05	1.458E+00	6.773E+00	3.89E+00	9.11E+02	1.21E+03	0.295
		97	1.193E-01	1.165E+00	1.783E-05	3.266E-05	1.458E+00	6.045E+00	3.89E+00	9.11E+02	1.08E+03	0.277
187	2	92	-1.193E-01	1.165E+00	-1.783E-05	-3.266E-05	-1.458E+00	-6.045E+00	3.89E+00	-9.11E+02	-1.08E+03	0.277
			1.079E-01	-8.107E-05	-1.783E-05	-2.971E-05	-1.458E+00	6.329E+00	3.51E+00	-9.11E+02	1.13E+03	0.284
		97	1.079E-01	1.165E+00	-1.783E-05	-2.971E-05	-1.458E+00	5.601E+00	3.51E+00	-9.11E+02	1.00E+03	0.266
187	3	92	9.376E-01	1.198E+00	3.404E-04	2.495E-04	2.974E-03	-5.769E+00	-3.05E+01	1.86E+00	-1.03E+03	0.148
			1.165E+00	3.384E-02	3.404E-04	2.524E-04	2.851E-03	6.569E+00	3.79E+01	1.78E+00	1.17E+03	0.168
		97	1.165E+00	1.198E+00	3.404E-04	2.524E-04	2.788E-03	5.859E+00	3.79E+01	1.74E+00	1.05E+03	0.151
187	4	92	-1.165E+00	1.131E+00	-3.404E-04	-2.524E-04	-2.974E-03	-5.877E+00	3.79E+01	-1.86E+00	-1.05E+03	0.151
			-9.376E-01	-3.384E-02	-3.404E-04	-2.495E-04	-2.851E-03	6.533E+00	-3.05E+01	-1.78E+00	1.17E+03	0.167
		97	-9.376E-01	1.131E+00	-3.404E-04	-2.495E-04	-2.788E-03	5.787E+00	-3.05E+01	-1.74E+00	1.03E+03	0.148
188	1	97	-1.089E-01	-1.076E+00	5.831E-01	2.971E-05	1.458E+00	-5.601E+00	3.55E+00	9.11E+02	-1.00E+03	0.266
			1.183E-01	2.418E+00	5.831E-01	3.266E-05	7.289E-01	3.750E+00	3.85E+00	4.56E+02	6.70E+02	0.157
		56	1.183E-01	3.582E+00	5.831E-01	3.266E-05	0.000E+00	0.000E+00	3.85E+00	0.00E+00	0.00E+00	0.001
188	2	97	-1.183E-01	-1.253E+00	-5.831E-01	-3.266E-05	-1.458E+00	-6.045E+00	3.85E+00	-9.11E+02	-1.08E+03	0.277
			1.089E-01	2.241E+00	-5.831E-01	-2.971E-05	-7.289E-01	3.529E+00	3.55E+00	-4.56E+02	6.30E+02	0.151
		56	1.089E-01	3.405E+00	-5.831E-01	-2.971E-05	0.000E+00	0.000E+00	3.55E+00	0.00E+00	0.00E+00	0.000

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188	3	97	2.540E-01	-1.150E+00	1.115E-03	2.495E-04	2.788E-03	-5.787E+00	-8.27E+00	1.74E+00	-1.03E+03	0.145
			4.812E-01	2.344E+00	1.115E-03	2.524E-04	1.394E-03	3.657E+00	1.57E+01	8.71E-01	6.53E+02	0.093
		56	4.812E-01	3.508E+00	1.115E-03	2.524E-04	0.000E+00	0.000E+00	1.57E+01	0.00E+00	0.00E+00	0.002
188	4	97	-4.812E-01	-1.179E+00	-1.115E-03	-2.524E-04	-2.788E-03	-5.859E+00	1.57E+01	-1.74E+00	-1.05E+03	0.148
			-2.540E-01	2.315E+00	-1.115E-03	-2.495E-04	-1.394E-03	3.621E+00	-8.27E+00	-8.71E-01	6.47E+02	0.091
		56	-2.540E-01	3.479E+00	-1.115E-03	-2.495E-04	0.000E+00	0.000E+00	-8.27E+00	0.00E+00	0.00E+00	0.001
189	1	79	-7.882E-02	3.555E+00	5.815E-01	1.148E-04	0.000E+00	0.000E+00	2.57E+00	0.00E+00	0.00E+00	0.000
			8.308E-02	-2.268E+00	5.815E-01	2.065E-05	7.269E-01	3.716E+00	2.71E+00	4.54E+02	6.64E+02	0.156
		93	8.308E-02	-1.103E+00	5.815E-01	2.065E-05	1.454E+00	5.977E+00	2.71E+00	9.09E+02	1.07E+03	0.275
189	2	79	-8.308E-02	3.432E+00	-5.815E-01	-2.065E-05	0.000E+00	0.000E+00	2.71E+00	0.00E+00	0.00E+00	0.000
			7.882E-02	-2.391E+00	-5.815E-01	-1.148E-04	-7.269E-01	3.563E+00	2.57E+00	-4.54E+02	6.36E+02	0.152
		93	7.882E-02	-1.226E+00	-5.815E-01	-1.148E-04	-1.454E+00	5.669E+00	2.57E+00	-9.09E+02	1.01E+03	0.267
189	3	79	2.872E-01	3.511E+00	4.164E-03	3.572E-03	0.000E+00	0.000E+00	-9.35E+00	0.00E+00	0.00E+00	0.001
			4.491E-01	-2.312E+00	4.164E-03	3.478E-03	5.205E-03	3.660E+00	1.46E+01	3.25E+00	6.54E+02	0.093
		93	4.491E-01	-1.148E+00	4.164E-03	3.478E-03	1.041E-02	5.865E+00	1.46E+01	6.51E+00	1.05E+03	0.148
189	4	79	-4.491E-01	3.477E+00	-4.164E-03	-3.478E-03	0.000E+00	0.000E+00	1.46E+01	0.00E+00	0.00E+00	0.002
			-2.872E-01	-2.346E+00	-4.164E-03	-3.572E-03	-5.205E-03	3.618E+00	-9.35E+00	-3.25E+00	6.46E+02	0.091
		93	-2.872E-01	-1.181E+00	-4.164E-03	-3.572E-03	-1.041E-02	5.781E+00	-9.35E+00	-6.51E+00	1.03E+03	0.146
190	1	93	-7.713E-02	1.165E+00	1.194E-05	1.148E-04	1.454E+00	-5.669E+00	2.51E+00	9.09E+02	-1.01E+03	0.267
			8.478E-02	7.657E-05	1.194E-05	2.065E-05	1.454E+00	6.704E+00	2.76E+00	9.09E+02	1.20E+03	0.293
		98	8.478E-02	1.165E+00	1.194E-05	2.065E-05	1.454E+00	5.977E+00	2.76E+00	9.09E+02	1.07E+03	0.275
190	2	93	-8.478E-02	1.165E+00	-1.194E-05	-2.065E-05	-1.454E+00	-5.977E+00	2.76E+00	-9.09E+02	-1.07E+03	0.275
			7.713E-02	-7.657E-05	-1.194E-05	-1.148E-04	-1.454E+00	6.397E+00	2.51E+00	-9.09E+02	1.14E+03	0.285
		98	7.713E-02	1.165E+00	-1.194E-05	-1.148E-04	-1.454E+00	5.669E+00	2.51E+00	-9.09E+02	1.01E+03	0.267
190	3	93	9.414E-01	1.194E+00	3.971E-03	3.572E-03	1.041E-02	-5.781E+00	-3.07E+01	6.51E+00	-1.03E+03	0.149
			1.103E+00	2.959E-02	3.971E-03	3.478E-03	6.436E-03	6.564E+00	3.59E+01	4.02E+00	1.17E+03	0.168
		98	1.103E+00	1.194E+00	3.971E-03	3.478E-03	4.873E-03	5.859E+00	3.59E+01	3.05E+00	1.05E+03	0.151
190	4	93	-1.103E+00	1.135E+00	-3.971E-03	-3.478E-03	-1.041E-02	-5.865E+00	3.59E+01	-6.51E+00	-1.05E+03	0.151
			-9.414E-01	-2.959E-02	-3.971E-03	-3.572E-03	-6.436E-03	6.538E+00	-3.07E+01	-4.02E+00	1.17E+03	0.167
		98	-9.414E-01	1.135E+00	-3.971E-03	-3.572E-03	-4.873E-03	5.787E+00	-3.07E+01	-3.05E+00	1.03E+03	0.148
191	1	98	-7.492E-02	-1.103E+00	5.815E-01	1.148E-04	1.454E+00	-5.669E+00	2.44E+00	9.09E+02	-1.01E+03	0.267
			8.698E-02	2.391E+00	5.815E-01	2.065E-05	7.269E-01	3.716E+00	2.83E+00	4.54E+02	6.64E+02	0.156
		59	8.698E-02	3.555E+00	5.815E-01	2.065E-05	0.000E+00	0.000E+00	2.83E+00	0.00E+00	0.00E+00	0.000
191	2	98	-8.698E-02	-1.226E+00	-5.815E-01	-2.065E-05	-1.454E+00	-5.977E+00	2.83E+00	-9.09E+02	-1.07E+03	0.275
			7.492E-02	2.268E+00	-5.815E-01	-1.148E-04	-7.269E-01	3.563E+00	2.44E+00	-4.54E+02	6.36E+02	0.152
		59	7.492E-02	3.432E+00	-5.815E-01	-1.148E-04	0.000E+00	0.000E+00	2.44E+00	0.00E+00	0.00E+00	0.000
191	3	98	1.595E+00	-1.150E+00	1.949E-03	3.572E-03	4.873E-03	-5.787E+00	-5.20E+01	3.05E+00	-1.03E+03	0.151
			1.757E+00	2.344E+00	1.949E-03	3.478E-03	2.437E-03	3.657E+00	5.72E+01	1.52E+00	6.53E+02	0.099
		59	1.757E+00	3.508E+00	1.949E-03	3.478E-03	0.000E+00	0.000E+00	5.72E+01	0.00E+00	0.00E+00	0.008
191	4	98	-1.757E+00	-1.179E+00	-1.949E-03	-3.478E-03	-4.873E-03	-5.859E+00	5.72E+01	-3.05E+00	-1.05E+03	0.154
			-1.595E+00	2.315E+00	-1.949E-03	-3.572E-03	-2.437E-03	3.621E+00	-5.20E+01	-1.52E+00	6.47E+02	0.097
		59	-1.595E+00	3.479E+00	-1.949E-03	-3.572E-03	0.000E+00	0.000E+00	-5.20E+01	0.00E+00	0.00E+00	0.007
192	1	82	7.864E-01	1.958E+00	3.220E-01	2.535E-04	1.565E-01	1.949E+00	-2.56E+01	9.78E+01	3.48E+02	0.065
			-7.307E-01	-1.296E+00	3.107E-01	-8.595E-05	2.318E-01	1.201E-01	-2.38E+01	1.45E+02	2.14E+01	0.026
		94	-7.307E-01	-6.453E-01	3.107E-01	-8.595E-05	6.202E-01	1.334E+00	-2.38E+01	3.88E+02	2.38E+02	0.090

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192	2	82	7.307E-01	1.947E+00	-3.107E-01	8.595E-05	-1.969E-01	1.907E+00	-2.38E+01	-1.23E+02	3.40E+02	0.068
			-7.864E-01	-1.307E+00	-3.220E-01	-2.535E-04	-2.056E-01	9.201E-02	-2.56E+01	-1.28E+02	1.64E+01	0.024
		94	-7.864E-01	-6.565E-01	-3.220E-01	-2.535E-04	-6.080E-01	1.319E+00	-2.56E+01	-3.80E+02	2.36E+02	0.089
192	3	82	2.549E+00	3.617E+00	1.698E-02	3.861E-03	1.677E-02	7.996E+00	-8.30E+01	1.05E+01	1.43E+03	0.211
			1.032E+00	3.629E-01	5.667E-03	3.521E-03	3.624E-02	4.094E+00	3.36E+01	2.27E+01	7.31E+02	0.109
		94	1.032E+00	1.014E+00	5.667E-03	3.521E-03	1.620E-02	3.234E+00	3.36E+01	1.01E+01	5.78E+02	0.086
192	4	82	-1.032E+00	2.878E-01	-5.667E-03	-3.521E-03	-5.717E-02	-4.141E+00	3.36E+01	-3.57E+01	-7.40E+02	0.112
			-2.549E+00	-2.966E+00	-1.698E-02	-3.861E-03	-9.990E-03	-3.882E+00	-8.30E+01	-6.24E+00	-6.93E+02	0.109
		94	-2.549E+00	-2.315E+00	-1.698E-02	-3.861E-03	-4.084E-03	-5.816E-01	-8.30E+01	-2.55E+00	-1.04E+02	0.026
193	1	94	7.854E-01	6.571E-01	5.794E-03	2.535E-04	6.080E-01	-1.319E+00	-2.56E+01	3.80E+02	-2.36E+02	0.089
			-7.316E-01	6.050E-03	-5.519E-03	-8.595E-05	6.132E-01	1.735E+00	-2.38E+01	3.83E+02	3.10E+02	0.100
		99	-7.316E-01	6.567E-01	-5.519E-03	-8.595E-05	6.062E-01	1.335E+00	-2.38E+01	3.79E+02	2.38E+02	0.089
193	2	94	7.316E-01	6.446E-01	5.519E-03	8.595E-05	-6.202E-01	-1.334E+00	-2.38E+01	-3.88E+02	-2.38E+02	0.090
			-7.854E-01	-6.384E-03	-5.794E-03	-2.535E-04	-6.152E-01	1.732E+00	-2.56E+01	-3.84E+02	3.09E+02	0.100
		99	-7.854E-01	6.443E-01	-5.794E-03	-2.535E-04	-6.223E-01	1.318E+00	-2.56E+01	-3.89E+02	2.35E+02	0.090
193	3	94	2.877E+00	2.296E+00	1.478E-02	3.861E-03	4.084E-03	5.816E-01	-9.37E+01	2.55E+00	1.04E+02	0.028
			1.360E+00	1.645E+00	3.468E-03	3.521E-03	1.667E-03	1.883E+00	4.43E+01	1.04E+00	3.36E+02	0.053
		99	1.360E+00	2.296E+00	3.468E-03	3.521E-03	5.019E-03	3.533E+00	4.43E+01	3.14E+00	6.31E+02	0.094
193	4	94	-1.360E+00	-9.947E-01	-3.468E-03	-3.521E-03	-1.620E-02	-3.234E+00	4.43E+01	-1.01E+01	-5.78E+02	0.088
			-2.877E+00	-1.646E+00	-1.478E-02	-3.861E-03	-3.694E-03	1.583E+00	-9.37E+01	-2.31E+00	2.83E+02	0.053
		99	-2.877E+00	-9.951E-01	-1.478E-02	-3.861E-03	-2.119E-02	-8.795E-01	-9.37E+01	-1.32E+01	-1.57E+02	0.037
194	1	99	7.845E-01	-6.434E-01	3.219E-01	2.535E-04	6.223E-01	-1.318E+00	-2.56E+01	3.89E+02	-2.35E+02	0.090
			-7.326E-01	1.308E+00	3.106E-01	-8.595E-05	2.038E-01	1.241E-01	-2.39E+01	1.27E+02	2.22E+01	0.024
		62	-7.326E-01	1.959E+00	3.106E-01	-8.595E-05	1.540E-01	-1.900E+00	-2.39E+01	9.63E+01	-3.39E+02	0.064
194	2	99	7.326E-01	-6.577E-01	-3.106E-01	8.595E-05	-6.062E-01	-1.335E+00	-2.39E+01	-3.79E+02	-2.38E+02	0.089
			-7.845E-01	1.294E+00	-3.219E-01	-2.535E-04	-2.341E-01	8.962E-02	-2.56E+01	-1.46E+02	1.60E+01	0.026
		62	-7.845E-01	1.945E+00	-3.219E-01	-2.535E-04	-1.985E-01	-1.952E+00	-2.56E+01	-1.24E+02	-3.49E+02	0.069
194	3	99	3.207E+00	1.012E+00	1.590E-02	3.861E-03	2.119E-02	8.795E-01	-1.04E+02	1.32E+01	1.57E+02	0.038
			1.690E+00	2.964E+00	4.588E-03	3.521E-03	1.040E-02	4.391E+00	5.51E+01	6.50E+00	7.84E+02	0.117
		62	1.690E+00	3.614E+00	4.588E-03	3.521E-03	1.602E-02	4.436E+00	5.51E+01	1.00E+01	7.92E+02	0.119
194	4	99	-1.690E+00	-2.313E+00	-4.588E-03	-3.521E-03	-5.019E-03	-3.533E+00	5.51E+01	-3.14E+00	-6.31E+02	0.096
			-3.207E+00	-3.612E-01	-1.590E-02	-3.861E-03	-4.071E-02	-4.177E+00	-1.04E+02	-2.54E+01	-7.46E+02	0.122
		62	-3.207E+00	2.895E-01	-1.590E-02	-3.861E-03	-6.047E-02	-8.289E+00	-1.04E+02	-3.78E+01	-1.48E+03	0.225
200	1	10	-7.771E+00	7.296E-01	2.413E-02	7.962E-03	2.413E-01	3.556E+00	3.11E+02	6.03E+02	5.50E+02	0.203
			2.473E+01	2.504E-01	5.692E-02	4.811E-03	6.548E-02	9.909E-01	9.89E+02	1.64E+02	1.53E+02	0.181
		11	2.473E+01	2.959E-01	5.692E-02	4.811E-03	1.287E-01	8.902E-01	9.89E+02	3.22E+02	1.38E+02	0.201
200	2	10	-2.473E+01	-2.049E-01	-5.692E-02	-4.811E-03	-1.439E-01	-1.731E+00	9.89E+02	-3.60E+02	-2.67E+02	0.225
			7.771E+00	-6.840E-01	-2.413E-02	-7.962E-03	-5.628E-02	-1.259E+00	3.11E+02	-1.41E+02	-1.95E+02	0.090
		11	7.771E+00	-6.385E-01	-2.413E-02	-7.962E-03	-1.295E-02	1.030E-01	3.11E+02	-3.24E+01	1.59E+01	0.050
200	3	10	-1.508E+01	3.555E-01	-1.275E-02	7.109E-03	6.997E-02	1.349E+00	6.03E+02	1.75E+02	2.09E+02	0.137
			1.742E+01	-1.237E-01	2.004E-02	3.958E-03	1.410E-02	-1.595E-04	6.97E+02	3.52E+01	-2.47E-02	0.102
		11	1.742E+01	-7.813E-02	2.004E-02	3.958E-03	6.076E-02	6.656E-01	6.97E+02	1.52E+02	1.03E+02	0.132
200	4	10	-1.742E+01	1.692E-01	-2.004E-02	-3.958E-03	2.741E-02	4.762E-01	6.97E+02	6.85E+01	7.36E+01	0.117
			1.508E+01	-3.099E-01	1.275E-02	-7.109E-03	-4.902E-03	-2.679E-01	6.03E+02	-1.23E+01	-4.14E+01	0.091
		11	1.508E+01	-2.644E-01	1.275E-02	-7.109E-03	5.501E-02	3.275E-01	6.03E+02	1.38E+02	5.06E+01	0.110
201	1	11	-7.802E+00	8.485E-02	4.145E-02	-4.288E-03	5.389E-03	-1.138E-01	3.12E+02	1.35E+01	-1.76E+01	0.048

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			2.468E+01	9.937E-02	-7.787E-03	6.281E-03	1.621E-03	6.187E-01	9.87E+02	4.05E+00	9.56E+01	0.151
		12	2.468E+01	1.449E-01	-7.787E-03	6.281E-03	-5.599E-02	3.699E-01	9.87E+02	-1.40E+02	5.72E+01	0.164
201	2	11	-2.468E+01	-5.383E-02	7.787E-03	-6.281E-03	-1.363E-01	-8.675E-01	9.87E+02	-3.41E+02	-1.34E+02	0.203
			7.802E+00	-3.931E-02	-4.145E-02	4.288E-03	-3.072E-02	3.154E-01	3.12E+02	-7.68E+01	4.87E+01	0.061
		12	7.802E+00	6.230E-03	-4.145E-02	4.288E-03	-1.331E-01	2.210E-01	3.12E+02	-3.33E+02	3.42E+01	0.094
201	3	11	-1.273E+01	7.682E-02	2.620E-02	-3.562E-03	-5.704E-02	-3.174E-01	5.09E+02	-1.43E+02	-4.91E+01	0.097
			1.975E+01	9.134E-02	-2.303E-02	7.007E-03	-1.108E-02	4.945E-01	7.90E+02	-2.77E+01	7.64E+01	0.124
		12	1.975E+01	1.369E-01	-2.303E-02	7.007E-03	-9.208E-02	5.210E-01	7.90E+02	-2.30E+02	8.05E+01	0.153
201	4	11	-1.975E+01	-4.579E-02	2.303E-02	-7.007E-03	-7.388E-02	-6.639E-01	7.90E+02	-1.85E+02	-1.03E+02	0.150
			1.273E+01	-3.128E-02	-2.620E-02	3.562E-03	-1.801E-02	4.397E-01	5.09E+02	-4.50E+01	6.79E+01	0.086
		12	1.273E+01	1.426E-02	-2.620E-02	3.562E-03	-9.703E-02	6.990E-02	5.09E+02	-2.43E+02	1.08E+01	0.106
202	1	12	-3.890E+01	2.428E-01	-2.763E-02	-4.017E-03	1.422E-01	-2.209E-01	1.56E+03	3.56E+02	-3.41E+01	0.270
			5.536E+01	-1.607E-01	4.716E-02	6.072E-03	2.023E-02	1.085E+00	2.21E+03	5.06E+01	1.68E+02	0.338
		13	5.536E+01	-1.152E-01	4.716E-02	6.072E-03	1.643E-01	1.652E+00	2.21E+03	4.11E+02	2.55E+02	0.400
202	2	12	-5.536E+01	2.063E-01	-4.716E-02	-6.072E-03	6.962E-02	-3.698E-01	2.21E+03	1.74E+02	-5.72E+01	0.340
			3.890E+01	-1.973E-01	2.763E-02	4.017E-03	1.100E-02	8.174E-01	1.56E+03	2.75E+01	1.26E+02	0.237
		13	3.890E+01	-1.517E-01	2.763E-02	4.017E-03	1.099E-01	1.266E+00	1.56E+03	2.75E+02	1.96E+02	0.281
202	3	12	-4.316E+01	2.990E-01	-3.594E-02	-3.807E-03	1.103E-01	-7.160E-02	1.73E+03	2.76E+02	-1.11E+01	0.280
			5.109E+01	-1.045E-01	3.884E-02	6.282E-03	2.404E-02	9.715E-01	2.04E+03	6.01E+01	1.50E+02	0.313
		13	5.109E+01	-5.899E-02	3.884E-02	6.282E-03	1.501E-01	1.719E+00	2.04E+03	3.75E+02	2.66E+02	0.373
202	4	12	-5.109E+01	1.501E-01	-3.884E-02	-6.282E-03	1.015E-01	-5.192E-01	2.04E+03	2.54E+02	-8.02E+01	0.330
			4.316E+01	-2.535E-01	3.594E-02	3.807E-03	7.185E-03	9.308E-01	1.73E+03	1.80E+01	1.44E+02	0.262
		13	4.316E+01	-2.079E-01	3.594E-02	3.807E-03	1.242E-01	1.198E+00	1.73E+03	3.11E+02	1.85E+02	0.309
203	1	13	-3.976E+01	-3.512E-02	5.459E-02	-1.659E-04	-1.166E-01	-1.264E+00	1.59E+03	-2.92E+02	-1.95E+02	0.289
			5.447E+01	1.479E-01	-3.903E-02	1.850E-03	-6.586E-03	1.246E+00	2.18E+03	-1.65E+01	1.93E+02	0.332
		14	5.447E+01	1.934E-01	-3.903E-02	1.850E-03	-1.371E-01	7.476E-01	2.18E+03	-3.43E+02	1.16E+02	0.366
203	2	13	-5.447E+01	-1.023E-01	3.903E-02	-1.850E-03	-1.708E-01	-1.652E+00	2.18E+03	-4.27E+02	-2.55E+02	0.397
			3.976E+01	8.066E-02	-5.459E-02	1.659E-04	-1.028E-02	1.075E+00	1.59E+03	-2.57E+01	1.66E+02	0.248
		14	3.976E+01	1.262E-01	-5.459E-02	1.659E-04	-1.841E-01	6.829E-01	1.59E+03	-4.60E+02	1.06E+02	0.299
203	3	13	-3.997E+01	2.570E-02	4.845E-02	-7.142E-04	-1.278E-01	-1.193E+00	1.60E+03	-3.20E+02	-1.84E+02	0.292
			5.425E+01	2.087E-01	-4.516E-02	1.302E-03	2.231E-03	1.205E+00	2.17E+03	5.58E+00	1.86E+02	0.328
		14	5.425E+01	2.542E-01	-4.516E-02	1.302E-03	-1.549E-01	1.065E+00	2.17E+03	-3.87E+02	1.65E+02	0.378
203	4	13	-5.425E+01	-1.631E-01	4.516E-02	-1.302E-03	-1.596E-01	-1.723E+00	2.17E+03	-3.99E+02	-2.66E+02	0.394
			3.997E+01	1.984E-02	-4.845E-02	7.142E-04	-1.910E-02	1.117E+00	1.60E+03	-4.77E+01	1.73E+02	0.253
		14	3.997E+01	6.538E-02	-4.845E-02	7.142E-04	-1.662E-01	3.660E-01	1.60E+03	-4.16E+02	5.66E+01	0.288
204	1	14	-5.161E+01	1.140E-01	-4.585E-02	-7.996E-04	1.878E-01	-6.829E-01	2.06E+03	4.70E+02	-1.06E+02	0.367
			6.524E+01	-7.437E-03	5.937E-02	2.080E-03	6.779E-03	9.879E-01	2.61E+03	1.69E+01	1.53E+02	0.386
		15	6.524E+01	3.811E-02	5.937E-02	2.080E-03	1.981E-01	1.135E+00	2.61E+03	4.95E+02	1.75E+02	0.456
204	2	14	-6.524E+01	5.298E-02	-5.937E-02	-2.080E-03	1.423E-01	-7.476E-01	2.61E+03	3.56E+02	-1.16E+02	0.428
			5.161E+01	-6.850E-02	4.585E-02	7.996E-04	5.074E-03	8.375E-01	2.06E+03	1.27E+01	1.29E+02	0.306
		15	5.161E+01	-2.296E-02	4.585E-02	7.996E-04	1.557E-01	7.890E-01	2.06E+03	3.89E+02	1.22E+02	0.358
204	3	14	-5.118E+01	1.911E-01	-5.214E-02	-1.088E-03	1.732E-01	-3.669E-01	2.05E+03	4.33E+02	-5.67E+01	0.352
			6.567E+01	6.964E-02	5.307E-02	1.792E-03	1.274E-02	9.242E-01	2.63E+03	3.18E+01	1.43E+02	0.389
		15	6.567E+01	1.152E-01	5.307E-02	1.792E-03	1.825E-01	1.314E+00	2.63E+03	4.56E+02	2.03E+02	0.456
204	4	14	-6.567E+01	-2.410E-02	-5.307E-02	-1.792E-03	1.569E-01	-1.064E+00	2.63E+03	3.92E+02	-1.64E+02	0.442
			5.118E+01	-1.456E-01	5.214E-02	1.088E-03	-8.872E-04	9.011E-01	2.05E+03	-2.22E+00	1.39E+02	0.304

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		15	5.118E+01	-1.000E-01	5.214E-02	1.088E-03	1.713E-01	6.106E-01	2.05E+03	4.28E+02	9.44E+01	0.357
205	1	15	-5.164E+01	1.620E-01	6.171E-02	6.235E-04	-1.585E-01	-7.850E-01	2.07E+03	-3.96E+02	-1.21E+02	0.359
			6.520E+01	-6.238E-02	-4.940E-02	5.993E-04	5.687E-05	1.412E+00	2.61E+03	1.42E-01	2.18E+02	0.393
		16	6.520E+01	-1.684E-02	-4.940E-02	5.993E-04	-1.625E-01	1.579E+00	2.61E+03	-4.06E+02	2.44E+02	0.453
205	2	15	-6.520E+01	1.079E-01	4.940E-02	-5.993E-04	-2.006E-01	-1.131E+00	2.61E+03	-5.01E+02	-1.75E+02	0.456
			5.164E+01	-1.165E-01	-6.171E-02	-6.235E-04	-2.031E-03	1.233E+00	2.07E+03	-5.08E+00	1.91E+02	0.314
		16	5.164E+01	-7.094E-02	-6.171E-02	-6.235E-04	-2.005E-01	1.500E+00	2.07E+03	-5.01E+02	2.32E+02	0.389
205	3	15	-4.948E+01	2.513E-01	5.765E-02	2.410E-04	-1.732E-01	-6.049E-01	1.98E+03	-4.33E+02	-9.35E+01	0.348
			6.737E+01	2.694E-02	-5.346E-02	2.167E-04	1.206E-02	1.352E+00	2.69E+03	3.02E+01	2.09E+02	0.407
		16	6.737E+01	7.248E-02	-5.346E-02	2.167E-04	-1.617E-01	1.943E+00	2.69E+03	-4.04E+02	3.00E+02	0.472
205	4	15	-6.737E+01	1.860E-02	5.346E-02	-2.167E-04	-1.860E-01	-1.311E+00	2.69E+03	-4.65E+02	-2.03E+02	0.467
			4.948E+01	-2.058E-01	-5.765E-02	-2.410E-04	-1.403E-02	1.293E+00	1.98E+03	-3.51E+01	2.00E+02	0.307
		16	4.948E+01	-1.603E-01	-5.765E-02	-2.410E-04	-2.013E-01	1.135E+00	1.98E+03	-5.03E+02	1.75E+02	0.369
206	1	16	-5.334E+01	-2.389E-02	-5.030E-02	5.096E-04	1.997E-01	-1.500E+00	2.13E+03	4.99E+02	-2.32E+02	0.398
			6.351E+01	1.094E-01	6.081E-02	5.393E-04	1.221E-04	1.391E+00	2.54E+03	3.05E-01	2.15E+02	0.383
		17	6.351E+01	1.550E-01	6.081E-02	5.393E-04	1.956E-01	1.085E+00	2.54E+03	4.89E+02	1.68E+02	0.444
206	2	16	-6.351E+01	-6.387E-02	-6.081E-02	-5.393E-04	1.634E-01	-1.579E+00	2.54E+03	4.08E+02	-2.44E+02	0.443
			5.334E+01	6.944E-02	5.030E-02	-5.096E-04	-2.097E-03	1.254E+00	2.13E+03	-5.24E+00	1.94E+02	0.324
		17	5.334E+01	1.150E-01	5.030E-02	-5.096E-04	1.635E-01	8.307E-01	2.13E+03	4.09E+02	1.28E+02	0.371
206	3	16	-4.956E+01	7.348E-02	-5.368E-02	6.926E-04	2.007E-01	-1.135E+00	1.98E+03	5.02E+02	-1.75E+02	0.369
			6.728E+01	2.068E-01	5.743E-02	7.222E-04	1.215E-02	1.350E+00	2.69E+03	3.04E+01	2.09E+02	0.407
		17	6.728E+01	2.523E-01	5.743E-02	7.222E-04	1.868E-01	1.317E+00	2.69E+03	4.67E+02	2.04E+02	0.467
206	4	16	-6.728E+01	-1.612E-01	-5.743E-02	-7.222E-04	1.624E-01	-1.943E+00	2.69E+03	4.06E+02	-3.00E+02	0.472
			4.956E+01	-2.794E-02	5.368E-02	-6.926E-04	-1.412E-02	1.295E+00	1.98E+03	-3.53E+01	2.00E+02	0.308
		17	4.956E+01	1.760E-02	5.368E-02	-6.926E-04	1.723E-01	5.985E-01	1.98E+03	4.31E+02	9.25E+01	0.348
207	1	17	-5.338E+01	2.899E-02	5.710E-02	2.210E-03	-1.612E-01	-8.350E-01	2.14E+03	-4.03E+02	-1.29E+02	0.370
			6.348E+01	5.941E-02	-4.812E-02	-6.636E-04	7.046E-03	9.718E-01	2.54E+03	1.76E+01	1.50E+02	0.376
		18	6.348E+01	1.050E-01	-4.812E-02	-6.636E-04	-1.516E-01	7.382E-01	2.54E+03	-3.79E+02	1.14E+02	0.421
207	2	17	-6.348E+01	-1.387E-02	4.812E-02	6.636E-04	-1.926E-01	-1.089E+00	2.54E+03	-4.82E+02	-1.68E+02	0.443
			5.338E+01	1.655E-02	-5.710E-02	-2.210E-03	4.800E-03	8.536E-01	2.14E+03	1.20E+01	1.32E+02	0.317
		18	5.338E+01	6.209E-02	-5.710E-02	-2.210E-03	-1.785E-01	6.923E-01	2.14E+03	-4.46E+02	1.07E+02	0.373
207	3	17	-5.064E+01	1.164E-01	5.326E-02	2.208E-03	-1.716E-01	-6.048E-01	2.03E+03	-4.29E+02	-9.35E+01	0.354
			6.622E+01	1.469E-01	-5.196E-02	-6.655E-04	1.310E-02	9.246E-01	2.65E+03	3.27E+01	1.43E+02	0.392
		18	6.622E+01	1.924E-01	-5.196E-02	-6.655E-04	-1.559E-01	1.066E+00	2.65E+03	-3.90E+02	1.65E+02	0.445
207	4	17	-6.622E+01	-1.013E-01	5.196E-02	6.655E-04	-1.822E-01	-1.319E+00	2.65E+03	-4.55E+02	-2.04E+02	0.459
			5.064E+01	-7.090E-02	-5.326E-02	-2.208E-03	-1.251E-03	9.008E-01	2.03E+03	-3.13E+00	1.39E+02	0.301
		18	5.064E+01	-2.536E-02	-5.326E-02	-2.208E-03	-1.742E-01	3.645E-01	2.03E+03	-4.36E+02	5.63E+01	0.350
208	1	18	-4.328E+01	1.766E-01	-4.370E-02	1.505E-03	1.728E-01	-6.923E-01	1.73E+03	4.32E+02	-1.07E+02	0.315
			5.096E+01	-9.750E-02	4.991E-02	-5.064E-04	-6.221E-03	1.208E+00	2.04E+03	-1.56E+01	1.87E+02	0.311
		19	5.096E+01	-5.196E-02	4.991E-02	-5.064E-04	1.517E-01	1.557E+00	2.04E+03	3.79E+02	2.41E+02	0.369
208	2	18	-5.096E+01	1.430E-01	-4.991E-02	5.064E-04	1.483E-01	-7.382E-01	2.04E+03	3.71E+02	-1.14E+02	0.350
			4.328E+01	-1.310E-01	4.370E-02	-1.505E-03	-1.066E-02	1.114E+00	1.73E+03	-2.66E+01	1.72E+02	0.268
		19	4.328E+01	-8.551E-02	4.370E-02	-1.505E-03	1.357E-01	1.359E+00	1.73E+03	3.39E+02	2.10E+02	0.317
208	3	18	-3.961E+01	2.568E-01	-4.503E-02	1.692E-03	1.663E-01	-3.636E-01	1.58E+03	4.16E+02	-5.62E+01	0.286
			5.462E+01	-1.730E-02	4.858E-02	-3.198E-04	2.772E-03	1.199E+00	2.18E+03	6.93E+00	1.85E+02	0.330
		19	5.462E+01	2.824E-02	4.858E-02	-3.198E-04	1.606E-01	1.737E+00	2.18E+03	4.01E+02	2.68E+02	0.397

208	4	18	-5.462E+01	6.284E-02	-4.858E-02	3.198E-04	1.548E-01	-1.067E+00	2.18E+03	3.87E+02	-1.65E+02	0.380
			3.961E+01	-2.113E-01	4.503E-02	-1.692E-03	-1.965E-02	1.122E+00	1.58E+03	-4.91E+01	1.73E+02	0.251
		19	3.961E+01	-1.657E-01	4.503E-02	-1.692E-03	1.268E-01	1.179E+00	1.58E+03	3.17E+02	1.82E+02	0.289
209	1	19	-4.416E+01	-1.178E-01	3.836E-02	6.481E-03	-1.296E-01	-1.360E+00	1.77E+03	-3.24E+02	-2.10E+02	0.320
			5.011E+01	1.947E-01	-3.643E-02	-3.603E-03	2.093E-02	9.994E-01	2.00E+03	5.23E+01	1.54E+02	0.307
		20	5.011E+01	2.403E-01	-3.643E-02	-3.603E-03	-1.016E-01	3.053E-01	2.00E+03	-2.54E+02	4.72E+01	0.320
209	2	19	-5.011E+01	-1.492E-01	3.643E-02	3.603E-03	-1.447E-01	-1.558E+00	2.00E+03	-3.62E+02	-2.41E+02	0.362
			4.416E+01	1.633E-01	-3.836E-02	-6.481E-03	1.028E-02	9.031E-01	1.77E+03	2.57E+01	1.40E+02	0.268
		20	4.416E+01	2.088E-01	-3.836E-02	-6.481E-03	-1.103E-01	2.856E-01	1.77E+03	-2.76E+02	4.41E+01	0.290
209	3	19	-4.216E+01	-5.865E-02	3.874E-02	6.729E-03	-1.238E-01	-1.184E+00	1.69E+03	-3.09E+02	-1.83E+02	0.303
			5.211E+01	2.538E-01	-3.605E-02	-3.355E-03	2.484E-02	9.848E-01	2.08E+03	6.21E+01	1.52E+02	0.319
		20	5.211E+01	2.994E-01	-3.605E-02	-3.355E-03	-1.004E-01	5.068E-01	2.08E+03	-2.51E+02	7.83E+01	0.335
209	4	19	-5.211E+01	-2.083E-01	3.605E-02	3.355E-03	-1.505E-01	-1.734E+00	2.08E+03	-3.76E+02	-2.68E+02	0.379
			4.216E+01	1.042E-01	-3.874E-02	-6.729E-03	6.375E-03	9.177E-01	1.69E+03	1.59E+01	1.42E+02	0.256
		20	4.216E+01	1.497E-01	-3.874E-02	-6.729E-03	-1.115E-01	8.412E-02	1.69E+03	-2.79E+02	1.30E+01	0.275
210	1	20	-1.491E+01	8.286E-02	-1.693E-02	5.845E-03	1.023E-01	-2.857E-01	5.97E+02	2.56E+02	-4.42E+01	0.125
			1.758E+01	-2.256E-02	3.231E-02	-4.724E-03	2.916E-03	4.874E-01	7.03E+02	7.29E+00	7.53E+01	0.109
		21	1.758E+01	2.298E-02	3.231E-02	-4.724E-03	1.079E-01	5.337E-01	7.03E+02	2.70E+02	8.25E+01	0.147
210	2	20	-1.758E+01	6.811E-02	-3.231E-02	4.724E-03	8.683E-02	-3.054E-01	7.03E+02	2.17E+02	-4.72E+01	0.134
			1.491E+01	-3.732E-02	1.693E-02	-5.845E-03	-3.202E-02	4.464E-01	5.97E+02	-8.01E+01	6.90E+01	0.104
		21	1.491E+01	8.222E-03	1.693E-02	-5.845E-03	2.303E-02	4.467E-01	5.97E+02	5.76E+01	6.90E+01	0.100
210	3	20	-1.190E+01	1.252E-01	-2.323E-02	7.136E-03	9.676E-02	-8.358E-02	4.76E+02	2.42E+02	-1.29E+01	0.102
			2.059E+01	1.973E-02	2.601E-02	-3.433E-03	-1.031E-02	5.176E-01	8.24E+02	-2.58E+01	8.00E+01	0.129
		21	2.059E+01	6.527E-02	2.601E-02	-3.433E-03	7.394E-02	6.012E-01	8.24E+02	1.85E+02	9.29E+01	0.153
210	4	20	-2.059E+01	2.581E-02	-2.601E-02	3.433E-03	9.237E-02	-5.076E-01	8.24E+02	2.31E+02	-7.84E+01	0.157
			1.190E+01	-7.961E-02	2.323E-02	-7.136E-03	-1.879E-02	4.162E-01	4.76E+02	-4.70E+01	6.43E+01	0.082
		21	1.190E+01	-3.407E-02	2.323E-02	-7.136E-03	5.698E-02	3.792E-01	4.76E+02	1.42E+02	5.86E+01	0.094
211	1	21	-1.497E+01	-1.560E-01	4.960E-02	-1.492E-03	-1.468E-02	-4.520E-01	5.99E+02	-3.67E+01	-6.99E+01	0.098
			1.756E+01	2.310E-01	1.680E-02	1.675E-03	6.929E-02	-1.280E-01	7.02E+02	1.73E+02	-1.98E+01	0.124
		22	1.756E+01	2.765E-01	1.680E-02	1.675E-03	1.239E-01	-8.579E-01	7.02E+02	3.10E+02	-1.33E+02	0.159
211	2	21	-1.756E+01	-1.855E-01	-1.680E-02	-1.675E-03	-1.011E-01	-5.402E-01	7.02E+02	-2.53E+02	-8.35E+01	0.144
			1.497E+01	2.016E-01	-4.960E-02	1.492E-03	-6.013E-02	-1.375E-01	5.99E+02	-1.50E+02	-2.12E+01	0.107
		22	1.497E+01	2.471E-01	-4.960E-02	1.492E-03	-2.213E-01	-9.614E-01	5.99E+02	-5.53E+02	-1.49E+02	0.181
211	3	21	-1.579E+01	-1.484E-01	1.936E-02	5.085E-03	-5.460E-02	-3.880E-01	6.32E+02	-1.36E+02	-6.00E+01	0.115
			1.674E+01	2.386E-01	-1.344E-02	8.252E-03	1.142E-02	-9.616E-02	6.69E+02	2.85E+01	-1.49E+01	0.099
		22	1.674E+01	2.842E-01	-1.344E-02	8.252E-03	-3.237E-02	-8.703E-01	6.69E+02	-8.09E+01	-1.34E+02	0.123
211	4	21	-1.674E+01	-1.931E-01	1.344E-02	-8.252E-03	-6.116E-02	-6.043E-01	6.69E+02	-1.53E+02	-9.34E+01	0.127
			1.579E+01	1.939E-01	-1.936E-02	-5.085E-03	-2.261E-03	-1.694E-01	6.32E+02	-5.65E+00	-2.62E+01	0.092
		22	1.579E+01	2.395E-01	-1.936E-02	-5.085E-03	-6.508E-02	-9.491E-01	6.32E+02	-1.63E+02	-1.47E+02	0.131
300	1	30	-7.701E+00	7.207E-01	9.688E-03	3.390E-03	1.942E-01	3.531E+00	3.08E+02	4.86E+02	5.46E+02	0.186
			2.467E+01	2.547E-01	4.184E-02	-3.048E-03	6.847E-02	9.903E-01	9.87E+02	1.71E+02	1.53E+02	0.182
		31	2.467E+01	3.003E-01	4.184E-02	-3.048E-03	7.778E-02	8.579E-01	9.87E+02	1.94E+02	1.33E+02	0.182
300	2	30	-2.467E+01	-2.092E-01	-4.184E-02	3.048E-03	-9.995E-02	-1.744E+00	9.87E+02	-2.50E+02	-2.70E+02	0.209
			7.701E+00	-6.752E-01	-9.688E-03	-3.390E-03	-5.825E-02	-1.263E+00	3.08E+02	-1.46E+02	-1.95E+02	0.090
		31	7.701E+00	-6.296E-01	-9.688E-03	-3.390E-03	3.692E-02	8.837E-02	3.08E+02	9.23E+01	1.37E+01	0.058

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300	3	30	-1.493E+01	3.561E-01	-1.119E-02	7.892E-03	7.178E-02	1.367E+00	5.97E+02	1.79E+02	2.11E+02	0.137
			1.744E+01	-1.099E-01	2.095E-02	1.454E-03	1.392E-02	1.113E-02	6.98E+02	3.48E+01	1.72E+00	0.102
		31	1.744E+01	-6.436E-02	2.095E-02	1.454E-03	6.445E-02	6.522E-01	6.98E+02	1.61E+02	1.01E+02	0.133
300	4	30	-1.744E+01	1.554E-01	-2.095E-02	-1.454E-03	2.248E-02	4.202E-01	6.98E+02	5.62E+01	6.49E+01	0.114
			1.493E+01	-3.106E-01	1.119E-02	-7.892E-03	-3.698E-03	-2.834E-01	5.97E+02	-9.25E+00	-4.38E+01	0.090
		31	1.493E+01	-2.650E-01	1.119E-02	-7.892E-03	5.025E-02	2.940E-01	5.97E+02	1.26E+02	4.54E+01	0.107
301	1	31	-7.733E+00	9.253E-02	2.632E-02	3.390E-03	-4.511E-02	-8.847E-02	3.09E+02	-1.13E+02	-1.37E+01	0.061
			2.464E+01	9.551E-02	-2.359E-02	-3.048E-03	1.500E-05	6.217E-01	9.86E+02	3.75E-02	9.61E+01	0.150
		32	2.464E+01	1.411E-01	-2.359E-02	-3.048E-03	-8.473E-02	3.945E-01	9.86E+02	-2.12E+02	6.10E+01	0.175
301	2	31	-2.464E+01	-4.997E-02	2.359E-02	3.048E-03	-8.508E-02	-8.579E-01	9.86E+02	-2.13E+02	-1.33E+02	0.185
			7.733E+00	-4.698E-02	-2.632E-02	-3.390E-03	-3.202E-02	3.150E-01	3.09E+02	-8.00E+01	4.87E+01	0.061
		32	7.733E+00	-1.442E-03	-2.632E-02	-3.390E-03	-1.095E-01	2.365E-01	3.09E+02	-2.74E+02	3.65E+01	0.086
301	3	31	-1.493E+01	8.451E-02	2.749E-02	7.892E-03	-5.303E-02	-2.910E-01	5.97E+02	-1.33E+02	-4.50E+01	0.108
			1.744E+01	8.750E-02	-2.241E-02	1.454E-03	-1.208E-02	4.934E-01	6.98E+02	-3.02E+01	7.63E+01	0.112
		32	1.744E+01	1.330E-01	-2.241E-02	1.454E-03	-9.245E-02	5.447E-01	6.98E+02	-2.31E+02	8.42E+01	0.141
301	4	31	-1.744E+01	-4.195E-02	2.241E-02	-1.454E-03	-7.716E-02	-6.553E-01	6.98E+02	-1.93E+02	-1.01E+02	0.138
			1.493E+01	-3.897E-02	-2.749E-02	-7.892E-03	-1.992E-02	4.433E-01	5.97E+02	-4.98E+01	6.85E+01	0.099
		32	1.493E+01	6.571E-03	-2.749E-02	-7.892E-03	-1.017E-01	8.625E-02	5.97E+02	-2.54E+02	1.33E+01	0.120
302	1	32	-3.881E+01	2.370E-01	-3.136E-02	3.007E-03	1.184E-01	-2.380E-01	1.55E+03	2.96E+02	-3.68E+01	0.262
			5.530E+01	-1.550E-01	4.262E-02	-2.809E-03	2.009E-02	1.084E+00	2.21E+03	5.02E+01	1.67E+02	0.337
		33	5.530E+01	-1.094E-01	4.262E-02	-2.809E-03	1.586E-01	1.632E+00	2.21E+03	3.96E+02	2.52E+02	0.397
302	2	32	-5.530E+01	2.005E-01	-4.262E-02	2.809E-03	8.829E-02	-3.873E-01	2.21E+03	2.21E+02	-5.99E+01	0.346
			3.881E+01	-1.915E-01	3.136E-02	-3.007E-03	1.363E-02	8.159E-01	1.55E+03	3.41E+01	1.26E+02	0.238
		33	3.881E+01	-1.460E-01	3.136E-02	-3.007E-03	1.156E-01	1.246E+00	1.55E+03	2.89E+02	1.93E+02	0.282
302	3	32	-4.076E+01	2.964E-01	-3.488E-02	3.814E-03	1.061E-01	-8.829E-02	1.63E+03	2.65E+02	-1.36E+01	0.265
			5.335E+01	-9.560E-02	3.910E-02	-2.002E-03	2.554E-02	9.784E-01	2.13E+03	6.39E+01	1.51E+02	0.326
		33	5.335E+01	-5.006E-02	3.910E-02	-2.002E-03	1.525E-01	1.719E+00	2.13E+03	3.81E+02	2.66E+02	0.386
302	4	32	-5.335E+01	1.411E-01	-3.910E-02	2.002E-03	1.006E-01	-5.371E-01	2.13E+03	2.52E+02	-8.30E+01	0.343
			4.076E+01	-2.509E-01	3.488E-02	-3.814E-03	8.179E-03	9.210E-01	1.63E+03	2.04E+01	1.42E+02	0.249
		33	4.076E+01	-2.053E-01	3.488E-02	-3.814E-03	1.217E-01	1.158E+00	1.63E+03	3.04E+02	1.79E+02	0.294
303	1	33	-3.968E+01	-2.983E-02	5.361E-02	3.007E-03	-1.220E-01	-1.246E+00	1.59E+03	-3.05E+02	-1.93E+02	0.290
			5.443E+01	1.419E-01	-4.034E-02	-2.809E-03	-8.953E-03	1.246E+00	2.18E+03	-2.24E+01	1.93E+02	0.332
		34	5.443E+01	1.874E-01	-4.034E-02	-2.809E-03	-1.402E-01	7.643E-01	2.18E+03	-3.50E+02	1.18E+02	0.367
303	2	33	-5.443E+01	-9.633E-02	4.034E-02	2.809E-03	-1.649E-01	-1.632E+00	2.18E+03	-4.12E+02	-2.52E+02	0.395
			3.968E+01	7.537E-02	-5.361E-02	-3.007E-03	-9.410E-03	1.073E+00	1.59E+03	-2.35E+01	1.66E+02	0.247
		34	3.968E+01	1.209E-01	-5.361E-02	-3.007E-03	-1.835E-01	7.013E-01	1.59E+03	-4.59E+02	1.08E+02	0.299
303	3	33	-4.076E+01	3.409E-02	4.929E-02	3.814E-03	-1.253E-01	-1.155E+00	1.63E+03	-3.13E+02	-1.79E+02	0.295
			5.335E+01	2.058E-01	-4.466E-02	-2.002E-03	1.625E-03	1.194E+00	2.13E+03	4.06E+00	1.85E+02	0.323
		34	5.335E+01	2.513E-01	-4.466E-02	-2.002E-03	-1.581E-01	1.081E+00	2.13E+03	-3.95E+02	1.67E+02	0.374
303	4	33	-5.335E+01	-1.602E-01	4.466E-02	2.002E-03	-1.617E-01	-1.722E+00	2.13E+03	-4.04E+02	-2.66E+02	0.390
			4.076E+01	1.145E-02	-4.929E-02	-3.814E-03	-1.999E-02	1.125E+00	1.63E+03	-5.00E+01	1.74E+02	0.258
		34	4.076E+01	5.699E-02	-4.929E-02	-3.814E-03	-1.656E-01	3.842E-01	1.63E+03	-4.14E+02	5.94E+01	0.292
304	1	34	-5.154E+01	1.069E-01	-4.575E-02	1.826E-03	1.853E-01	-7.050E-01	2.06E+03	4.63E+02	-1.09E+02	0.366
			6.518E+01	-9.424E-04	5.883E-02	-1.710E-03	6.863E-03	9.875E-01	2.61E+03	1.72E+01	1.53E+02	0.386
		35	6.518E+01	4.460E-02	5.883E-02	-1.710E-03	1.971E-01	1.111E+00	2.61E+03	4.93E+02	1.72E+02	0.454
304	2	34	-6.518E+01	4.648E-02	-5.883E-02	1.710E-03	1.419E-01	-7.686E-01	2.61E+03	3.55E+02	-1.19E+02	0.428

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			5.154E+01	-6.134E-02	4.575E-02	-1.826E-03	5.864E-03	8.366E-01	2.06E+03	1.47E+01	1.29E+02	0.306
		35	5.154E+01	-1.580E-02	4.575E-02	-1.826E-03	1.555E-01	7.671E-01	2.06E+03	3.89E+02	1.19E+02	0.357
304	3	34	-5.007E+01	1.837E-01	-5.203E-02	1.973E-03	1.700E-01	-3.907E-01	2.00E+03	4.25E+02	-6.04E+01	0.346
			6.665E+01	7.589E-02	5.256E-02	-1.563E-03	1.326E-02	9.220E-01	2.67E+03	3.31E+01	1.42E+02	0.395
		35	6.665E+01	1.214E-01	5.256E-02	-1.563E-03	1.838E-01	1.289E+00	2.67E+03	4.59E+02	1.99E+02	0.462
304	4	34	-6.665E+01	-3.035E-02	-5.256E-02	1.563E-03	1.572E-01	-1.083E+00	2.67E+03	3.93E+02	-1.67E+02	0.448
			5.007E+01	-1.382E-01	5.203E-02	-1.973E-03	-5.301E-04	9.021E-01	2.00E+03	-1.33E+00	1.39E+02	0.298
		35	5.007E+01	-9.263E-02	5.203E-02	-1.973E-03	1.689E-01	5.894E-01	2.00E+03	4.22E+02	9.11E+01	0.349
305	1	35	-5.157E+01	1.674E-01	6.141E-02	1.826E-03	-1.582E-01	-7.671E-01	2.06E+03	-3.95E+02	-1.19E+02	0.358
			6.514E+01	-6.845E-02	-4.929E-02	-1.710E-03	-3.151E-05	1.413E+00	2.61E+03	-7.88E-02	2.18E+02	0.392
		36	6.514E+01	-2.290E-02	-4.929E-02	-1.710E-03	-1.622E-01	1.598E+00	2.61E+03	-4.06E+02	2.47E+02	0.453
305	2	35	-6.514E+01	1.140E-01	4.929E-02	1.710E-03	-1.995E-01	-1.111E+00	2.61E+03	-4.99E+02	-1.72E+02	0.455
			5.157E+01	-1.219E-01	-6.141E-02	-1.826E-03	-2.059E-03	1.233E+00	2.06E+03	-5.15E+00	1.90E+02	0.314
		36	5.157E+01	-7.633E-02	-6.141E-02	-1.826E-03	-1.996E-01	1.517E+00	2.06E+03	-4.99E+02	2.35E+02	0.388
305	3	35	-5.007E+01	2.522E-01	5.679E-02	1.973E-03	-1.706E-01	-5.884E-01	2.00E+03	-4.27E+02	-9.09E+01	0.350
			6.665E+01	1.634E-02	-5.390E-02	-1.563E-03	1.175E-02	1.341E+00	2.67E+03	2.94E+01	2.07E+02	0.403
		36	6.665E+01	6.188E-02	-5.390E-02	-1.563E-03	-1.635E-01	1.932E+00	2.67E+03	-4.09E+02	2.99E+02	0.469
305	4	35	-6.665E+01	2.921E-02	5.390E-02	1.563E-03	-1.871E-01	-1.290E+00	2.67E+03	-4.68E+02	-1.99E+02	0.463
			5.007E+01	-2.067E-01	-5.679E-02	-1.973E-03	-1.384E-02	1.304E+00	2.00E+03	-3.46E+01	2.01E+02	0.311
		36	5.007E+01	-1.611E-01	-5.679E-02	-1.973E-03	-1.984E-01	1.183E+00	2.00E+03	-4.96E+02	1.83E+02	0.372
306	1	36	-5.327E+01	-3.003E-02	-5.002E-02	-1.600E-03	1.993E-01	-1.517E+00	2.13E+03	4.98E+02	-2.35E+02	0.398
			6.344E+01	1.148E-01	6.067E-02	1.943E-03	2.757E-05	1.391E+00	2.54E+03	6.89E-02	2.15E+02	0.382
		37	6.344E+01	1.603E-01	6.067E-02	1.943E-03	1.951E-01	1.065E+00	2.54E+03	4.88E+02	1.65E+02	0.443
306	2	36	-6.344E+01	-6.922E-02	-6.067E-02	-1.943E-03	1.626E-01	-1.598E+00	2.54E+03	4.06E+02	-2.47E+02	0.443
			5.327E+01	7.557E-02	5.002E-02	1.600E-03	-2.119E-03	1.254E+00	2.13E+03	-5.30E+00	1.94E+02	0.324
		37	5.327E+01	1.211E-01	5.002E-02	1.600E-03	1.626E-01	8.131E-01	2.13E+03	4.06E+02	1.26E+02	0.370
306	3	36	-4.984E+01	6.285E-02	-5.412E-02	-1.338E-03	1.977E-01	-1.183E+00	1.99E+03	4.94E+02	-1.83E+02	0.371
			6.687E+01	2.076E-01	5.657E-02	2.204E-03	1.184E-02	1.340E+00	2.67E+03	2.96E+01	2.07E+02	0.404
		37	6.687E+01	2.532E-01	5.657E-02	2.204E-03	1.879E-01	1.296E+00	2.67E+03	4.70E+02	2.00E+02	0.465
306	4	36	-6.687E+01	-1.621E-01	-5.657E-02	-2.204E-03	1.641E-01	-1.933E+00	2.67E+03	4.10E+02	-2.99E+02	0.470
			4.984E+01	-1.731E-02	5.412E-02	1.338E-03	-1.393E-02	1.305E+00	1.99E+03	-3.48E+01	2.02E+02	0.310
		37	4.984E+01	2.823E-02	5.412E-02	1.338E-03	1.698E-01	5.823E-01	1.99E+03	4.24E+02	9.00E+01	0.348
307	1	37	-5.330E+01	3.545E-02	5.698E-02	-1.600E-03	-1.603E-01	-8.130E-01	2.13E+03	-4.01E+02	-1.26E+02	0.369
			6.341E+01	5.217E-02	-4.761E-02	1.943E-03	7.139E-03	9.716E-01	2.54E+03	1.78E+01	1.50E+02	0.376
		38	6.341E+01	9.771E-02	-4.761E-02	1.943E-03	-1.492E-01	7.596E-01	2.54E+03	-3.73E+02	1.17E+02	0.420
307	2	37	-6.341E+01	-6.625E-03	4.761E-02	-1.943E-03	-1.923E-01	-1.065E+00	2.54E+03	-4.81E+02	-1.65E+02	0.442
			5.330E+01	1.009E-02	-5.698E-02	1.600E-03	5.584E-03	8.525E-01	2.13E+03	1.40E+01	1.32E+02	0.316
		38	5.330E+01	5.564E-02	-5.698E-02	1.600E-03	-1.780E-01	7.141E-01	2.13E+03	-4.45E+02	1.10E+02	0.373
307	3	37	-4.984E+01	1.227E-01	5.253E-02	-1.338E-03	-1.692E-01	-5.833E-01	1.99E+03	-4.23E+02	-9.02E+01	0.348
			6.687E+01	1.394E-01	-5.205E-02	2.204E-03	1.361E-02	9.225E-01	2.67E+03	3.40E+01	1.43E+02	0.396
		38	6.687E+01	1.850E-01	-5.205E-02	2.204E-03	-1.562E-01	1.085E+00	2.67E+03	-3.90E+02	1.68E+02	0.449
307	4	37	-6.687E+01	-9.389E-02	5.205E-02	-2.204E-03	-1.835E-01	-1.295E+00	2.67E+03	-4.59E+02	-2.00E+02	0.463
			4.984E+01	-7.717E-02	-5.253E-02	1.338E-03	-8.881E-04	9.016E-01	1.99E+03	-2.22E+00	1.39E+02	0.297
		38	4.984E+01	-3.163E-02	-5.253E-02	1.338E-03	-1.710E-01	3.885E-01	1.99E+03	-4.28E+02	6.00E+01	0.345
308	1	38	-4.321E+01	1.705E-01	-4.270E-02	-2.455E-03	1.761E-01	-7.100E-01	1.73E+03	4.40E+02	-1.10E+02	0.316
			5.088E+01	-9.224E-02	5.125E-02	3.369E-03	-8.804E-03	1.207E+00	2.04E+03	-2.20E+01	1.87E+02	0.312

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		39	5.088E+01	-4.670E-02	5.125E-02	3.369E-03	1.570E-01	1.537E+00	2.04E+03	3.93E+02	2.38E+02	0.370
308	2	38	-5.088E+01	1.378E-01	-5.125E-02	-3.369E-03	1.476E-01	-7.555E-01	2.04E+03	3.69E+02	-1.17E+02	0.350
			4.321E+01	-1.250E-01	4.270E-02	2.455E-03	-9.568E-03	1.112E+00	1.73E+03	-2.39E+01	1.72E+02	0.267
		39	4.321E+01	-7.942E-02	4.270E-02	2.455E-03	1.299E-01	1.341E+00	1.73E+03	3.25E+02	2.07E+02	0.314
308	3	38	-4.008E+01	2.539E-01	-4.453E-02	-2.587E-03	1.657E-01	-3.817E-01	1.60E+03	4.14E+02	-5.90E+01	0.288
			5.402E+01	-8.879E-03	4.942E-02	3.237E-03	2.176E-03	1.189E+00	2.16E+03	5.44E+00	1.84E+02	0.326
		39	5.402E+01	3.666E-02	4.942E-02	3.237E-03	1.627E-01	1.736E+00	2.16E+03	4.07E+02	2.68E+02	0.394
308	4	38	-5.402E+01	5.442E-02	-4.942E-02	-3.237E-03	1.580E-01	-1.084E+00	2.16E+03	3.95E+02	-1.68E+02	0.378
			4.008E+01	-2.083E-01	4.453E-02	2.587E-03	-2.055E-02	1.130E+00	1.60E+03	-5.14E+01	1.75E+02	0.254
		39	4.008E+01	-1.628E-01	4.453E-02	2.587E-03	1.243E-01	1.141E+00	1.60E+03	3.11E+02	1.76E+02	0.290
309	1	39	-4.407E+01	-1.122E-01	4.181E-02	-2.455E-03	-1.238E-01	-1.340E+00	1.76E+03	-3.10E+02	-2.07E+02	0.317
			5.003E+01	1.887E-01	-3.217E-02	3.369E-03	1.945E-02	9.979E-01	2.00E+03	4.86E+01	1.54E+02	0.306
		40	5.003E+01	2.343E-01	-3.217E-02	3.369E-03	-8.522E-02	3.224E-01	2.00E+03	-2.13E+02	4.98E+01	0.314
309	2	39	-5.003E+01	-1.432E-01	3.217E-02	-3.369E-03	-1.503E-01	-1.537E+00	2.00E+03	-3.76E+02	-2.38E+02	0.363
			4.407E+01	1.577E-01	-4.181E-02	2.455E-03	1.426E-02	9.013E-01	1.76E+03	3.57E+01	1.39E+02	0.269
		40	4.407E+01	2.033E-01	-4.181E-02	2.455E-03	-1.215E-01	3.028E-01	1.76E+03	-3.04E+02	4.68E+01	0.294
309	3	39	-4.009E+01	-4.966E-02	3.899E-02	-2.587E-03	-1.213E-01	-1.144E+00	1.60E+03	-3.03E+02	-1.77E+02	0.289
			5.401E+01	2.513E-01	-3.499E-02	3.237E-03	2.631E-02	9.915E-01	2.16E+03	6.58E+01	1.53E+02	0.330
		40	5.401E+01	2.968E-01	-3.499E-02	3.237E-03	-9.962E-02	5.251E-01	2.16E+03	-2.49E+02	8.12E+01	0.346
309	4	39	-5.401E+01	-2.057E-01	3.499E-02	-3.237E-03	-1.529E-01	-1.734E+00	2.16E+03	-3.82E+02	-2.68E+02	0.390
			4.009E+01	9.520E-02	-3.899E-02	2.587E-03	7.396E-03	9.077E-01	1.60E+03	1.85E+01	1.40E+02	0.245
		40	4.009E+01	1.407E-01	-3.899E-02	2.587E-03	-1.071E-01	1.000E-01	1.60E+03	-2.68E+02	1.55E+01	0.262
310	1	40	-1.485E+01	7.708E-02	-1.389E-02	-2.511E-03	1.175E-01	-3.056E-01	5.94E+02	2.94E+02	-4.72E+01	0.130
			1.751E+01	-1.716E-02	3.602E-02	3.936E-03	-3.968E-04	4.895E-01	7.00E+02	-9.92E-01	7.56E+01	0.108
		41	1.751E+01	2.838E-02	3.602E-02	3.936E-03	1.166E-01	5.169E-01	7.00E+02	2.92E+02	7.99E+01	0.149
310	2	40	-1.751E+01	6.270E-02	-3.602E-02	-3.936E-03	7.669E-02	-3.252E-01	7.00E+02	1.92E+02	-5.03E+01	0.131
			1.485E+01	-3.154E-02	1.389E-02	2.511E-03	-3.162E-02	4.476E-01	5.94E+02	-7.90E+01	6.92E+01	0.103
		41	1.485E+01	1.401E-02	1.389E-02	2.511E-03	1.356E-02	4.304E-01	5.94E+02	3.39E+01	6.65E+01	0.096
310	3	40	-1.378E+01	1.219E-01	-2.258E-02	6.650E-04	1.006E-01	-9.945E-02	5.51E+02	2.52E+02	-1.54E+01	0.114
			1.858E+01	2.763E-02	2.733E-02	7.113E-03	-1.122E-02	5.157E-01	7.43E+02	-2.81E+01	7.97E+01	0.118
		41	1.858E+01	7.317E-02	2.733E-02	7.113E-03	7.745E-02	5.957E-01	7.43E+02	1.94E+02	9.21E+01	0.143
310	4	40	-1.858E+01	1.791E-02	-2.733E-02	-7.113E-03	9.357E-02	-5.313E-01	7.43E+02	2.34E+02	-8.21E+01	0.147
			1.378E+01	-7.633E-02	2.258E-02	-6.650E-04	-2.079E-02	4.213E-01	5.51E+02	-5.20E+01	6.51E+01	0.093
		41	1.378E+01	-3.078E-02	2.258E-02	-6.650E-04	5.273E-02	3.516E-01	5.51E+02	1.32E+02	5.43E+01	0.102
311	1	41	-1.488E+01	-1.507E-01	5.171E-02	-2.511E-03	-5.569E-03	-4.303E-01	5.95E+02	-1.39E+01	-6.65E+01	0.094
			1.747E+01	2.253E-01	1.955E-02	3.936E-03	6.913E-02	-1.326E-01	6.99E+02	1.73E+02	-2.05E+01	0.124
		42	1.747E+01	2.708E-01	1.955E-02	3.936E-03	1.327E-01	-8.452E-01	6.99E+02	3.32E+02	-1.31E+02	0.161
311	2	41	-1.747E+01	-1.797E-01	-1.955E-02	-3.936E-03	-1.091E-01	-5.169E-01	6.99E+02	-2.73E+02	-7.99E+01	0.146
			1.488E+01	1.963E-01	-5.171E-02	2.511E-03	-5.894E-02	-1.422E-01	5.95E+02	-1.47E+02	-2.20E+01	0.106
		42	1.488E+01	2.418E-01	-5.171E-02	2.511E-03	-2.270E-01	-9.476E-01	5.95E+02	-5.67E+02	-1.46E+02	0.182
311	3	41	-1.378E+01	-1.344E-01	2.040E-02	6.650E-04	-4.968E-02	-3.549E-01	5.51E+02	-1.24E+02	-5.48E+01	0.101
			1.858E+01	2.416E-01	-1.176E-02	7.113E-03	1.154E-02	-1.169E-01	7.43E+02	2.88E+01	-1.81E+01	0.110
		42	1.858E+01	2.871E-01	-1.176E-02	7.113E-03	-2.669E-02	-8.138E-01	7.43E+02	-6.67E+01	-1.26E+02	0.130
311	4	41	-1.858E+01	-1.960E-01	1.176E-02	-7.113E-03	-6.501E-02	-5.923E-01	7.43E+02	-1.63E+02	-9.15E+01	0.139
			1.378E+01	1.799E-01	-2.040E-02	-6.650E-04	-1.355E-03	-1.579E-01	5.51E+02	-3.39E+00	-2.44E+01	0.080
		42	1.378E+01	2.255E-01	-2.040E-02	-6.650E-04	-6.763E-02	-9.790E-01	5.51E+02	-1.69E+02	-1.51E+02	0.121

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500	1	50	1.253E+00	3.977E-01	4.575E-02	3.970E-03	1.509E-01	1.446E+00	-5.01E+01	3.77E+02	2.23E+02	0.090
			5.427E-01	-6.273E-02	2.251E-02	3.450E-03	5.000E-02	-7.086E-02	2.17E+01	1.25E+02	-1.10E+01	0.022
		51	5.427E-01	-1.719E-02	2.251E-02	3.450E-03	-4.648E-03	8.430E-01	2.17E+01	-1.16E+01	1.30E+02	0.023
500	2	50	-5.427E-01	1.083E-01	-2.251E-02	-3.450E-03	-1.987E-01	3.487E-01	2.17E+01	-4.97E+02	5.39E+01	0.079
			-1.253E+00	-3.521E-01	-4.575E-02	-3.970E-03	-7.780E-02	-2.275E-01	-5.01E+01	-1.95E+02	-3.52E+01	0.039
		51	-1.253E+00	-3.066E-01	-4.575E-02	-3.970E-03	-9.870E-02	5.899E-02	-5.01E+01	-2.47E+02	9.12E+00	0.043
500	3	50	4.194E-01	2.579E-01	2.119E-02	1.187E-03	1.793E-02	9.597E-01	-1.68E+01	4.48E+01	1.48E+02	0.029
			-2.913E-01	-2.025E-01	-2.058E-03	6.672E-04	-3.147E-03	-1.016E-01	-1.17E+01	-7.87E+00	-1.57E+01	0.005
		51	-2.913E-01	-1.569E-01	-2.058E-03	6.672E-04	-3.128E-02	4.847E-01	-1.17E+01	-7.82E+01	7.49E+01	0.023
500	4	50	2.913E-01	2.480E-01	2.058E-03	-6.672E-04	-6.569E-02	8.349E-01	-1.17E+01	-1.64E+02	1.29E+02	0.042
			-4.194E-01	-2.124E-01	-2.119E-02	-1.187E-03	-2.465E-02	-1.967E-01	-1.68E+01	-6.16E+01	-3.04E+01	0.015
		51	-4.194E-01	-1.668E-01	-2.119E-02	-1.187E-03	-7.207E-02	4.173E-01	-1.68E+01	-1.80E+02	6.45E+01	0.036
501	1	51	3.359E+01	1.149E-01	-1.607E-02	-3.606E-03	9.944E-02	-5.494E-02	-1.34E+03	2.49E+02	-8.49E+00	0.222
			-3.069E+01	8.247E-02	3.087E-02	3.863E-03	3.350E-02	6.405E-01	-1.23E+03	8.38E+01	9.90E+01	0.196
		52	-3.069E+01	1.280E-01	3.087E-02	3.863E-03	1.014E-01	5.067E-01	-1.23E+03	2.53E+02	7.83E+01	0.217
501	2	51	3.069E+01	-3.692E-02	-3.087E-02	-3.863E-03	1.875E-02	-8.343E-01	-1.23E+03	4.69E+01	-1.29E+02	0.195
			-3.359E+01	-6.940E-02	1.607E-02	3.606E-03	8.507E-04	3.543E-01	-1.34E+03	2.13E+00	5.48E+01	0.194
		52	-3.359E+01	-2.386E-02	1.607E-02	3.606E-03	8.551E-02	2.976E-01	-1.34E+03	2.14E+02	4.60E+01	0.223
501	3	51	3.766E+01	7.561E-02	-2.193E-02	-3.291E-03	7.155E-02	-3.998E-01	-1.51E+03	1.79E+02	-6.18E+01	0.243
			-2.661E+01	4.313E-02	2.501E-02	4.178E-03	2.479E-02	5.717E-01	-1.06E+03	6.20E+01	8.83E+01	0.169
		52	-2.661E+01	8.867E-02	2.501E-02	4.178E-03	9.673E-02	5.954E-01	-1.06E+03	2.42E+02	9.20E+01	0.194
501	4	51	2.661E+01	2.411E-03	-2.501E-02	-4.178E-03	4.664E-02	-4.894E-01	-1.06E+03	1.17E+02	-7.56E+01	0.175
			-3.766E+01	-3.007E-02	2.193E-02	3.291E-03	9.566E-03	4.231E-01	-1.51E+03	2.39E+01	6.54E+01	0.222
		52	-3.766E+01	1.547E-02	2.193E-02	3.291E-03	9.018E-02	2.090E-01	-1.51E+03	2.25E+02	3.23E+01	0.245
502	1	52	3.361E+01	2.348E-01	3.688E-02	-3.606E-03	-9.379E-02	-2.976E-01	-1.34E+03	-2.34E+02	-4.60E+01	0.226
			-3.066E+01	-8.600E-02	-3.436E-02	3.863E-03	-9.563E-03	9.896E-01	-1.23E+03	-2.39E+01	1.53E+02	0.195
		53	-3.066E+01	-4.045E-02	-3.436E-02	3.863E-03	-1.266E-01	1.529E+00	-1.23E+03	-3.16E+02	2.36E+02	0.247
502	2	52	3.066E+01	1.315E-01	3.436E-02	-3.863E-03	-1.097E-01	-5.066E-01	-1.23E+03	-2.74E+02	-7.83E+01	0.219
			-3.361E+01	-1.892E-01	-3.688E-02	3.606E-03	-1.852E-02	8.570E-01	-1.34E+03	-4.63E+01	1.32E+02	0.212
		53	-3.361E+01	-1.437E-01	-3.688E-02	3.606E-03	-1.330E-01	1.064E+00	-1.34E+03	-3.33E+02	1.64E+02	0.256
502	3	52	3.766E+01	2.511E-01	3.937E-02	-3.291E-03	-1.000E-01	-2.102E-01	-1.51E+03	-2.50E+02	-3.25E+01	0.248
			-2.661E+01	-6.967E-02	-3.188E-02	4.178E-03	-3.338E-03	9.539E-01	-1.06E+03	-8.35E+00	1.47E+02	0.169
		53	-2.661E+01	-2.413E-02	-3.188E-02	4.178E-03	-1.070E-01	1.547E+00	-1.06E+03	-2.67E+02	2.39E+02	0.218
502	4	52	2.661E+01	1.152E-01	3.188E-02	-4.178E-03	-1.035E-01	-5.940E-01	-1.06E+03	-2.59E+02	-9.18E+01	0.197
			-3.766E+01	-2.056E-01	-3.937E-02	3.291E-03	-2.474E-02	8.927E-01	-1.51E+03	-6.19E+01	1.38E+02	0.237
		53	-3.766E+01	-1.600E-01	-3.937E-02	3.291E-03	-1.527E-01	1.046E+00	-1.51E+03	-3.82E+02	1.62E+02	0.285
503	1	53	5.536E+01	1.667E-02	-4.363E-02	-8.727E-04	1.382E-01	-1.064E+00	-2.21E+03	3.46E+02	-1.64E+02	0.378
			-5.091E+01	1.102E-01	4.671E-02	1.788E-03	1.376E-02	1.245E+00	-2.04E+03	3.44E+01	1.92E+02	0.314
		54	-5.091E+01	1.557E-01	4.671E-02	1.788E-03	1.654E-01	8.836E-01	-2.04E+03	4.14E+02	1.37E+02	0.359
503	2	53	5.091E+01	-6.466E-02	-4.671E-02	-1.788E-03	1.303E-01	-1.528E+00	-2.04E+03	3.26E+02	-2.36E+02	0.361
			-5.536E+01	2.887E-02	4.363E-02	8.727E-04	1.127E-02	1.043E+00	-2.21E+03	2.82E+01	1.61E+02	0.334
		54	-5.536E+01	7.441E-02	4.363E-02	8.727E-04	1.532E-01	8.039E-01	-2.21E+03	3.83E+02	1.24E+02	0.378
503	3	53	6.224E+01	6.824E-02	-4.370E-02	-1.133E-03	1.528E-01	-1.041E+00	-2.49E+03	3.82E+02	-1.61E+02	0.421
			-4.403E+01	1.618E-01	4.664E-02	1.527E-03	2.644E-02	1.190E+00	-1.76E+03	6.61E+01	1.84E+02	0.279
		54	-4.403E+01	2.073E-01	4.664E-02	1.527E-03	1.688E-01	1.189E+00	-1.76E+03	4.22E+02	1.84E+02	0.329

503	4	53	4.403E+01	-1.162E-01	-4.664E-02	-1.527E-03	1.157E-01	-1.551E+00	-1.76E+03	2.89E+02	-2.40E+02	0.318
			-6.224E+01	-2.269E-02	4.370E-02	1.133E-03	-1.404E-03	1.097E+00	-2.49E+03	-3.51E+00	1.70E+02	0.370
		54	-6.224E+01	2.285E-02	4.370E-02	1.133E-03	1.499E-01	4.986E-01	-2.49E+03	3.75E+02	7.71E+01	0.409
504	1	54	5.539E+01	7.535E-02	5.440E-02	-8.727E-04	-1.572E-01	-8.038E-01	-2.22E+03	-3.93E+02	-1.24E+02	0.380
			-5.088E+01	3.324E-02	-5.053E-02	1.788E-03	-7.025E-03	9.835E-01	-2.04E+03	-1.76E+01	1.52E+02	0.306
		55	-5.088E+01	7.878E-02	-5.053E-02	1.788E-03	-1.713E-01	1.005E+00	-2.04E+03	-4.28E+02	1.55E+02	0.364
504	2	54	5.088E+01	1.231E-02	5.053E-02	-1.788E-03	-1.693E-01	-8.836E-01	-2.04E+03	-4.23E+02	-1.37E+02	0.360
			-5.539E+01	-2.981E-02	-5.440E-02	8.727E-04	-7.500E-03	8.408E-01	-2.22E+03	-1.88E+01	1.30E+02	0.328
		55	-5.539E+01	1.573E-02	-5.440E-02	8.727E-04	-1.843E-01	6.606E-01	-2.22E+03	-4.61E+02	1.02E+02	0.386
504	3	54	6.224E+01	1.504E-01	5.262E-02	-1.133E-03	-1.554E-01	-4.995E-01	-2.49E+03	-3.88E+02	-7.72E+01	0.410
			-4.403E+01	1.083E-01	-5.231E-02	1.527E-03	6.609E-04	9.238E-01	-1.76E+03	1.65E+00	1.43E+02	0.265
		55	-4.403E+01	1.538E-01	-5.231E-02	1.527E-03	-1.698E-01	1.181E+00	-1.76E+03	-4.24E+02	1.83E+02	0.329
504	4	54	4.403E+01	-6.274E-02	5.231E-02	-1.527E-03	-1.711E-01	-1.188E+00	-1.76E+03	-4.28E+02	-1.84E+02	0.330
			-6.224E+01	-1.049E-01	-5.262E-02	1.133E-03	-1.519E-02	9.005E-01	-2.49E+03	-3.80E+01	1.39E+02	0.370
		55	-6.224E+01	-5.931E-02	-5.262E-02	1.133E-03	-1.858E-01	4.838E-01	-2.49E+03	-4.64E+02	7.48E+01	0.421
505	1	55	6.487E+01	2.071E-01	-5.465E-02	5.389E-04	1.872E-01	-6.568E-01	-2.59E+03	4.68E+02	-1.02E+02	0.439
			-6.084E+01	-1.085E-01	5.897E-02	5.420E-04	4.474E-03	1.432E+00	-2.43E+03	1.12E+01	2.21E+02	0.370
		56	-6.084E+01	-6.297E-02	5.897E-02	5.420E-04	1.961E-01	1.750E+00	-2.43E+03	4.90E+02	2.70E+02	0.444
505	2	55	6.084E+01	1.541E-01	-5.897E-02	-5.420E-04	1.734E-01	-1.000E+00	-2.43E+03	4.34E+02	-1.55E+02	0.420
			-6.487E+01	-1.615E-01	5.465E-02	-5.389E-04	4.176E-03	1.250E+00	-2.59E+03	1.04E+01	1.93E+02	0.389
		56	-6.487E+01	-1.160E-01	5.465E-02	-5.389E-04	1.818E-01	1.662E+00	-2.59E+03	4.54E+02	2.57E+02	0.459
505	3	55	7.369E+01	2.960E-01	-5.373E-02	2.902E-04	1.864E-01	-4.782E-01	-2.95E+03	4.66E+02	-7.39E+01	0.484
			-5.202E+01	-1.957E-02	5.989E-02	2.932E-04	2.035E-02	1.371E+00	-2.08E+03	5.09E+01	2.12E+02	0.326
		56	-5.202E+01	2.597E-02	5.989E-02	2.932E-04	2.150E-01	2.107E+00	-2.08E+03	5.37E+02	3.26E+02	0.409
505	4	55	5.202E+01	6.511E-02	-5.989E-02	-2.932E-04	1.742E-01	-1.179E+00	-2.08E+03	4.36E+02	-1.82E+02	0.375
			-7.369E+01	-2.505E-01	5.373E-02	-2.902E-04	-1.170E-02	1.312E+00	-2.95E+03	-2.93E+01	2.03E+02	0.442
		56	-7.369E+01	-2.049E-01	5.373E-02	-2.902E-04	1.629E-01	1.305E+00	-2.95E+03	4.07E+02	2.02E+02	0.494
506	1	56	6.555E+01	-7.030E-02	5.891E-02	5.389E-04	-1.820E-01	-1.662E+00	-2.62E+03	-4.55E+02	-2.57E+02	0.463
			-6.016E+01	1.542E-01	-5.471E-02	5.420E-04	4.455E-03	1.410E+00	-2.41E+03	1.11E+01	2.18E+02	0.366
		57	-6.016E+01	1.997E-01	-5.471E-02	5.420E-04	-1.736E-01	9.522E-01	-2.41E+03	-4.34E+02	1.47E+02	0.415
506	2	56	6.016E+01	-1.086E-01	5.471E-02	-5.420E-04	-1.959E-01	-1.750E+00	-2.41E+03	-4.90E+02	-2.70E+02	0.440
			-6.555E+01	1.158E-01	-5.891E-02	-5.389E-04	4.195E-03	1.272E+00	-2.62E+03	1.05E+01	1.97E+02	0.393
		57	-6.555E+01	1.614E-01	-5.891E-02	-5.389E-04	-1.870E-01	7.047E-01	-2.62E+03	-4.68E+02	1.09E+02	0.444
506	3	56	7.369E+01	2.703E-02	6.009E-02	2.902E-04	-1.623E-01	-1.305E+00	-2.95E+03	-4.06E+02	-2.02E+02	0.494
			-5.202E+01	2.515E-01	-5.353E-02	2.932E-04	2.032E-02	1.369E+00	-2.08E+03	5.08E+01	2.11E+02	0.325
		57	-5.202E+01	2.971E-01	-5.353E-02	2.932E-04	-1.749E-01	1.185E+00	-2.08E+03	-4.37E+02	1.83E+02	0.375
506	4	56	5.202E+01	-2.060E-01	5.353E-02	-2.932E-04	-2.156E-01	-2.107E+00	-2.08E+03	-5.39E+02	-3.26E+02	0.409
			-7.369E+01	1.852E-02	-6.009E-02	-2.902E-04	-1.167E-02	1.314E+00	-2.95E+03	-2.92E+01	2.03E+02	0.442
		57	-7.369E+01	6.406E-02	-6.009E-02	-2.902E-04	-1.858E-01	4.716E-01	-2.95E+03	-4.64E+02	7.29E+01	0.484
507	1	57	5.485E+01	6.783E-02	-5.044E-02	2.110E-03	1.847E-01	-7.090E-01	-2.19E+03	4.62E+02	-1.10E+02	0.384
			-5.142E+01	1.889E-02	5.449E-02	-5.447E-04	-6.919E-03	9.709E-01	-2.06E+03	-1.73E+01	1.50E+02	0.309
		58	-5.142E+01	6.443E-02	5.449E-02	-5.447E-04	1.695E-01	8.676E-01	-2.06E+03	4.24E+02	1.34E+02	0.363
507	2	57	5.142E+01	2.665E-02	-5.449E-02	5.447E-04	1.709E-01	-9.563E-01	-2.06E+03	4.27E+02	-1.48E+02	0.366
			-5.485E+01	-2.229E-02	5.044E-02	-2.110E-03	-7.606E-03	8.534E-01	-2.19E+03	-1.90E+01	1.32E+02	0.326
		58	-5.485E+01	2.325E-02	5.044E-02	-2.110E-03	1.570E-01	8.198E-01	-2.19E+03	3.93E+02	1.27E+02	0.377
507	3	57	6.217E+01	1.554E-01	-5.223E-02	1.963E-03	1.863E-01	-4.777E-01	-2.49E+03	4.66E+02	-7.38E+01	0.420

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			-4.410E+01	1.064E-01	5.270E-02	-6.917E-04	6.456E-04	9.241E-01	-1.76E+03	1.61E+00	1.43E+02	0.265
		58	-4.410E+01	1.520E-01	5.270E-02	-6.917E-04	1.705E-01	1.192E+00	-1.76E+03	4.26E+02	1.84E+02	0.330
507	4	57	4.410E+01	-6.087E-02	-5.270E-02	6.917E-04	1.692E-01	-1.188E+00	-1.76E+03	4.23E+02	-1.84E+02	0.329
			-6.217E+01	-1.098E-01	5.223E-02	-1.963E-03	-1.517E-02	9.003E-01	-2.49E+03	-3.79E+01	1.39E+02	0.370
		58	-6.217E+01	-6.428E-02	5.223E-02	-1.963E-03	1.560E-01	4.956E-01	-2.49E+03	3.90E+02	7.66E+01	0.410
508	1	58	5.488E+01	1.310E-01	4.708E-02	2.110E-03	-1.535E-01	-8.199E-01	-2.20E+03	-3.84E+02	-1.27E+02	0.376
			-5.139E+01	-5.368E-02	-4.326E-02	-5.447E-04	1.324E-02	1.191E+00	-2.06E+03	3.31E+01	1.84E+02	0.316
		59	-5.139E+01	-8.139E-03	-4.326E-02	-5.447E-04	-1.277E-01	1.391E+00	-2.06E+03	-3.19E+02	2.15E+02	0.360
508	2	58	5.139E+01	9.922E-02	4.326E-02	5.447E-04	-1.652E-01	-8.676E-01	-2.06E+03	-4.13E+02	-1.34E+02	0.361
			-5.488E+01	-8.545E-02	-4.708E-02	-2.110E-03	1.180E-02	1.097E+00	-2.20E+03	2.95E+01	1.70E+02	0.333
		59	-5.488E+01	-3.991E-02	-4.708E-02	-2.110E-03	-1.409E-01	1.200E+00	-2.20E+03	-3.52E+02	1.86E+02	0.380
508	3	58	6.217E+01	2.111E-01	4.651E-02	1.963E-03	-1.495E-01	-4.947E-01	-2.49E+03	-3.74E+02	-7.65E+01	0.408
			-4.410E+01	2.646E-02	-4.382E-02	-6.917E-04	2.636E-02	1.183E+00	-1.76E+03	6.59E+01	1.83E+02	0.280
		59	-4.410E+01	7.200E-02	-4.382E-02	-6.917E-04	-1.162E-01	1.572E+00	-1.76E+03	-2.91E+02	2.43E+02	0.319
508	4	58	4.410E+01	1.908E-02	4.382E-02	6.917E-04	-1.691E-01	-1.193E+00	-1.76E+03	-4.23E+02	-1.84E+02	0.329
			-6.217E+01	-1.656E-01	-4.651E-02	-1.963E-03	-1.324E-03	1.105E+00	-2.49E+03	-3.31E+00	1.71E+02	0.370
		59	-6.217E+01	-1.201E-01	-4.651E-02	-1.963E-03	-1.523E-01	1.020E+00	-2.49E+03	-3.81E+02	1.58E+02	0.420
509	1	59	3.326E+01	-7.720E-02	-3.228E-02	5.047E-03	1.374E-01	-1.202E+00	-1.33E+03	3.43E+02	-1.86E+02	0.258
			-3.101E+01	1.526E-01	3.897E-02	-2.414E-03	-1.038E-02	9.706E-01	-1.24E+03	-2.59E+01	1.50E+02	0.197
		60	-3.101E+01	1.981E-01	3.897E-02	-2.414E-03	1.161E-01	4.128E-01	-1.24E+03	2.90E+02	6.38E+01	0.221
509	2	59	3.101E+01	-1.070E-01	-3.897E-02	2.414E-03	1.223E-01	-1.392E+00	-1.24E+03	3.06E+02	-2.15E+02	0.245
			-3.326E+01	1.227E-01	3.228E-02	-5.047E-03	-1.770E-02	8.761E-01	-1.33E+03	-4.42E+01	1.35E+02	0.210
		60	-3.326E+01	1.683E-01	3.228E-02	-5.047E-03	8.736E-02	3.911E-01	-1.33E+03	2.18E+02	6.04E+01	0.224
509	3	59	3.756E+01	-1.859E-02	-3.182E-02	4.716E-03	1.527E-01	-1.025E+00	-1.50E+03	3.82E+02	-1.58E+02	0.284
			-2.672E+01	2.112E-01	3.943E-02	-2.746E-03	-3.516E-03	9.572E-01	-1.07E+03	-8.79E+00	1.48E+02	0.170
		60	-2.672E+01	2.567E-01	3.943E-02	-2.746E-03	1.038E-01	6.087E-01	-1.07E+03	2.60E+02	9.41E+01	0.198
509	4	59	2.672E+01	-1.656E-01	-3.943E-02	2.746E-03	1.069E-01	-1.568E+00	-1.07E+03	2.67E+02	-2.42E+02	0.219
			-3.756E+01	6.414E-02	3.182E-02	-4.716E-03	-2.456E-02	8.895E-01	-1.50E+03	-6.14E+01	1.37E+02	0.236
		60	-3.756E+01	1.097E-01	3.182E-02	-4.716E-03	9.965E-02	1.952E-01	-1.50E+03	2.49E+02	3.02E+01	0.247
510	1	60	3.329E+01	5.935E-02	3.232E-02	5.047E-03	-7.957E-02	-3.912E-01	-1.33E+03	-1.99E+02	-6.05E+01	0.221
			-3.099E+01	5.764E-04	-1.462E-02	-2.414E-03	3.218E-02	5.191E-01	-1.24E+03	8.04E+01	8.02E+01	0.194
		61	-3.099E+01	4.612E-02	-1.462E-02	-2.414E-03	-1.536E-02	4.887E-01	-1.24E+03	-3.84E+01	7.55E+01	0.188
510	2	60	3.099E+01	4.497E-02	1.462E-02	2.414E-03	-1.073E-01	-4.128E-01	-1.24E+03	-2.68E+02	-6.38E+01	0.218
			-3.329E+01	-1.380E-02	-3.232E-02	-5.047E-03	2.174E-03	4.760E-01	-1.33E+03	5.44E+00	7.36E+01	0.196
		61	-3.329E+01	3.174E-02	-3.232E-02	-5.047E-03	-1.028E-01	4.014E-01	-1.33E+03	-2.57E+02	6.20E+01	0.229
510	3	60	3.756E+01	9.944E-02	2.513E-02	4.716E-03	-9.034E-02	-1.947E-01	-1.50E+03	-2.26E+02	-3.01E+01	0.244
			-2.672E+01	4.067E-02	-2.181E-02	-2.746E-03	2.493E-02	5.514E-01	-1.07E+03	6.23E+01	8.52E+01	0.169
		61	-2.672E+01	8.621E-02	-2.181E-02	-2.746E-03	-4.612E-02	5.452E-01	-1.07E+03	-1.15E+02	8.43E+01	0.176
510	4	60	2.672E+01	4.871E-03	2.181E-02	2.746E-03	-9.657E-02	-6.094E-01	-1.07E+03	-2.41E+02	-9.42E+01	0.195
			-3.756E+01	-5.390E-02	-2.513E-02	-4.716E-03	9.421E-03	4.437E-01	-1.50E+03	2.36E+01	6.86E+01	0.221
		61	-3.756E+01	-8.356E-03	-2.513E-02	-4.716E-03	-7.209E-02	3.449E-01	-1.50E+03	-1.80E+02	5.33E+01	0.241
511	1	61	8.283E-01	-1.470E-01	2.350E-02	1.839E-03	1.034E-01	-4.073E-01	-3.31E+01	2.58E+02	-6.29E+01	0.049
			1.167E-01	2.226E-01	4.675E-02	2.366E-03	4.857E-02	-1.438E-01	4.67E+00	1.21E+02	-2.22E+01	0.021
		62	1.167E-01	2.682E-01	4.675E-02	2.366E-03	2.005E-01	-8.443E-01	4.67E+00	5.01E+02	-1.30E+02	0.088
511	2	61	-1.167E-01	-1.771E-01	-4.675E-02	-2.366E-03	-3.658E-05	-4.956E-01	4.67E+00	-9.15E-02	-7.66E+01	0.011
			-8.283E-01	1.926E-01	-2.350E-02	-1.839E-03	-7.636E-02	-1.547E-01	-3.31E+01	-1.91E+02	-2.39E+01	0.034

		62	-8.283E-01	2.381E-01	-2.350E-02	-1.839E-03	-1.527E-01	-9.516E-01	-3.31E+01	-3.82E+02	-1.47E+02	0.078
511	3	61	3.661E-01	-1.432E-01	-2.052E-03	1.475E-04	7.168E-02	-3.591E-01	-1.46E+01	1.79E+02	-5.55E+01	0.035
			-3.455E-01	2.265E-01	2.119E-02	6.742E-04	-2.738E-03	-1.171E-01	-1.38E+01	-6.85E+00	-1.81E+01	0.005
		62	-3.455E-01	2.720E-01	2.119E-02	6.742E-04	6.612E-02	-8.648E-01	-1.38E+01	1.65E+02	-1.34E+02	0.043
511	4	61	3.455E-01	-1.810E-01	-2.119E-02	-6.742E-04	3.166E-02	-5.437E-01	-1.38E+01	7.92E+01	-8.40E+01	0.025
			-3.661E-01	1.887E-01	2.052E-03	-1.475E-04	-2.505E-02	-1.815E-01	-1.46E+01	-6.26E+01	-2.80E+01	0.015
		62	-3.661E-01	2.342E-01	2.052E-03	-1.475E-04	-1.835E-02	-9.312E-01	-1.46E+01	-4.59E+01	-1.44E+02	0.028
700	1	70	1.253E+00	3.921E-01	4.696E-02	5.747E-03	1.590E-01	1.432E+00	-5.01E+01	3.97E+02	2.21E+02	0.093
			5.619E-01	-5.810E-02	2.540E-02	8.998E-05	4.968E-02	-7.561E-02	2.25E+01	1.24E+02	-1.17E+01	0.022
		71	5.619E-01	-1.256E-02	2.540E-02	8.998E-05	6.125E-03	8.205E-01	2.25E+01	1.53E+01	1.27E+02	0.023
700	2	70	-5.619E-01	1.036E-01	-2.540E-02	-8.998E-05	-2.023E-01	3.385E-01	2.25E+01	-5.06E+02	5.23E+01	0.081
			-1.253E+00	-3.466E-01	-4.696E-02	-5.747E-03	-7.642E-02	-2.318E-01	-5.01E+01	-1.91E+02	-3.58E+01	0.038
		71	-1.253E+00	-3.010E-01	-4.696E-02	-5.747E-03	-1.030E-01	3.921E-02	-5.01E+01	-2.57E+02	6.06E+00	0.044
700	3	70	3.448E+00	2.530E-01	1.997E-02	1.008E-02	1.742E-02	9.123E-01	-1.38E+02	4.35E+01	1.41E+02	0.045
			2.757E+00	-1.972E-01	-1.597E-03	4.427E-03	-4.099E-03	-1.194E-01	1.10E+02	-1.02E+01	-1.85E+01	0.019
		71	2.757E+00	-1.517E-01	-1.597E-03	4.427E-03	-2.777E-02	4.765E-01	1.10E+02	-6.94E+01	7.36E+01	0.035
700	4	70	-2.757E+00	2.428E-01	1.597E-03	-4.427E-03	-6.077E-02	8.583E-01	1.10E+02	-1.52E+02	1.33E+02	0.055
			-3.448E+00	-2.075E-01	-1.997E-02	-1.008E-02	-2.264E-02	-1.880E-01	-1.38E+02	-5.66E+01	-2.91E+01	0.031
		71	-3.448E+00	-1.619E-01	-1.997E-02	-1.008E-02	-6.906E-02	3.832E-01	-1.38E+02	-1.73E+02	5.92E+01	0.051
701	1	71	3.361E+01	1.203E-01	-1.399E-02	5.318E-03	1.060E-01	-3.926E-02	-1.34E+03	2.65E+02	-6.07E+00	0.224
			-3.069E+01	7.736E-02	3.304E-02	-2.729E-03	3.204E-02	6.433E-01	-1.23E+03	8.01E+01	9.94E+01	0.195
		72	-3.069E+01	1.229E-01	3.304E-02	-2.729E-03	1.088E-01	5.262E-01	-1.23E+03	2.72E+02	8.13E+01	0.220
701	2	71	3.069E+01	-3.182E-02	-3.304E-02	2.729E-03	1.346E-02	-8.205E-01	-1.23E+03	3.37E+01	-1.27E+02	0.193
			-3.361E+01	-7.481E-02	1.399E-02	-5.318E-03	1.334E-03	3.561E-01	-1.34E+03	3.34E+00	5.50E+01	0.195
		72	-3.361E+01	-2.926E-02	1.399E-02	-5.318E-03	7.742E-02	3.170E-01	-1.34E+03	1.94E+02	4.90E+01	0.220
701	3	71	3.466E+01	8.251E-02	-2.248E-02	5.382E-03	6.795E-02	-3.775E-01	-1.39E+03	1.70E+02	-5.83E+01	0.224
			-2.965E+01	3.952E-02	2.455E-02	-2.665E-03	2.176E-02	5.717E-01	-1.19E+03	5.44E+01	8.84E+01	0.185
		72	-2.965E+01	8.506E-02	2.455E-02	-2.665E-03	9.576E-02	6.178E-01	-1.19E+03	2.39E+02	9.55E+01	0.211
701	4	71	2.965E+01	6.024E-03	-2.455E-02	2.665E-03	5.154E-02	-4.823E-01	-1.19E+03	1.29E+02	-7.45E+01	0.193
			-3.466E+01	-3.696E-02	2.248E-02	-5.382E-03	1.161E-02	4.277E-01	-1.39E+03	2.90E+01	6.61E+01	0.206
		72	-3.466E+01	8.578E-03	2.248E-02	-5.382E-03	9.048E-02	2.253E-01	-1.39E+03	2.26E+02	3.48E+01	0.229
702	1	72	3.364E+01	2.289E-01	3.908E-02	4.067E-03	-8.610E-02	-3.150E-01	-1.35E+03	-2.15E+02	-4.87E+01	0.224
			-3.062E+01	-8.066E-02	-3.161E-02	-2.775E-03	-9.551E-03	9.881E-01	-1.22E+03	-2.39E+01	1.53E+02	0.195
		73	-3.062E+01	-3.512E-02	-3.161E-02	-2.775E-03	-1.193E-01	1.509E+00	-1.22E+03	-2.98E+02	2.33E+02	0.244
702	2	72	3.062E+01	1.262E-01	3.161E-02	2.775E-03	-1.173E-01	-5.222E-01	-1.22E+03	-2.93E+02	-8.07E+01	0.222
			-3.364E+01	-1.834E-01	-3.908E-02	-4.067E-03	-1.678E-02	8.552E-01	-1.35E+03	-4.19E+01	1.32E+02	0.211
		73	-3.364E+01	-1.378E-01	-3.908E-02	-4.067E-03	-1.368E-01	1.045E+00	-1.35E+03	-3.42E+02	1.61E+02	0.257
702	3	72	4.043E+01	2.486E-01	3.977E-02	3.646E-03	-9.898E-02	-2.263E-01	-1.62E+03	-2.47E+02	-3.50E+01	0.264
			-2.383E+01	-6.095E-02	-3.092E-02	-3.196E-03	-1.327E-03	9.611E-01	-9.53E+02	-3.32E+00	1.49E+02	0.153
		73	-2.383E+01	-1.541E-02	-3.092E-02	-3.196E-03	-1.018E-01	1.546E+00	-9.53E+02	-2.55E+02	2.39E+02	0.201
702	4	72	2.383E+01	1.065E-01	3.092E-02	3.196E-03	-1.044E-01	-6.109E-01	-9.53E+02	-2.61E+02	-9.44E+01	0.182
			-4.043E+01	-2.031E-01	-3.977E-02	-3.646E-03	-2.500E-02	8.822E-01	-1.62E+03	-6.25E+01	1.36E+02	0.252
		73	-4.043E+01	-1.575E-01	-3.977E-02	-3.646E-03	-1.542E-01	1.007E+00	-1.62E+03	-3.86E+02	1.56E+02	0.300
703	1	73	5.541E+01	2.210E-02	-4.319E-02	3.581E-03	1.450E-01	-1.045E+00	-2.22E+03	3.63E+02	-1.61E+02	0.381
			-5.088E+01	1.044E-01	4.802E-02	-2.803E-03	1.230E-02	1.245E+00	-2.04E+03	3.08E+01	1.92E+02	0.314
		74	-5.088E+01	1.499E-01	4.802E-02	-2.803E-03	1.672E-01	9.005E-01	-2.04E+03	4.18E+02	1.39E+02	0.360

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703	2	73	5.088E+01	-5.885E-02	-4.802E-02	2.803E-03	1.283E-01	-1.509E+00	-2.04E+03	3.21E+02	-2.33E+02	0.360
			-5.541E+01	2.344E-02	4.319E-02	-3.581E-03	1.085E-02	1.041E+00	-2.22E+03	2.71E+01	1.61E+02	0.334
		74	-5.541E+01	6.898E-02	4.319E-02	-3.581E-03	1.524E-01	8.220E-01	-2.22E+03	3.81E+02	1.27E+02	0.378
703	3	73	6.104E+01	7.647E-02	-4.342E-02	3.971E-03	1.575E-01	-1.004E+00	-2.44E+03	3.94E+02	-1.55E+02	0.415
			-4.525E+01	1.588E-01	4.779E-02	-2.414E-03	2.543E-02	1.180E+00	-1.81E+03	6.36E+01	1.82E+02	0.286
		74	-4.525E+01	2.043E-01	4.779E-02	-2.414E-03	1.668E-01	1.205E+00	-1.81E+03	4.17E+02	1.86E+02	0.335
703	4	73	4.525E+01	-1.132E-01	-4.779E-02	2.414E-03	1.158E-01	-1.550E+00	-1.81E+03	2.89E+02	-2.39E+02	0.325
			-6.104E+01	-3.093E-02	4.342E-02	-3.971E-03	-2.279E-03	1.106E+00	-2.44E+03	-5.70E+00	1.71E+02	0.364
		74	-6.104E+01	1.462E-02	4.342E-02	-3.971E-03	1.527E-01	5.174E-01	-2.44E+03	3.82E+02	8.00E+01	0.403
704	1	74	5.543E+01	6.819E-02	5.461E-02	2.098E-03	-1.565E-01	-8.260E-01	-2.22E+03	-3.91E+02	-1.28E+02	0.380
			-5.083E+01	3.969E-02	-5.023E-02	-1.804E-03	-6.263E-03	9.831E-01	-2.03E+03	-1.57E+01	1.52E+02	0.306
		75	-5.083E+01	8.523E-02	-5.023E-02	-1.804E-03	-1.700E-01	9.808E-01	-2.03E+03	-4.25E+02	1.52E+02	0.362
704	2	74	5.083E+01	5.856E-03	5.023E-02	1.804E-03	-1.710E-01	-9.044E-01	-2.03E+03	-4.28E+02	-1.40E+02	0.361
			-5.543E+01	-2.265E-02	-5.461E-02	-2.098E-03	-6.951E-03	8.399E-01	-2.22E+03	-1.74E+01	1.30E+02	0.328
		75	-5.543E+01	2.290E-02	-5.461E-02	-2.098E-03	-1.839E-01	6.388E-01	-2.22E+03	-4.60E+02	9.87E+01	0.386
704	3	74	6.306E+01	1.429E-01	5.324E-02	2.074E-03	-1.583E-01	-5.236E-01	-2.52E+03	-3.96E+02	-8.09E+01	0.417
			-4.320E+01	1.144E-01	-5.160E-02	-1.829E-03	1.473E-03	9.216E-01	-1.73E+03	3.68E+00	1.42E+02	0.260
		75	-4.320E+01	1.599E-01	-5.160E-02	-1.829E-03	-1.663E-01	1.157E+00	-1.73E+03	-4.16E+02	1.79E+02	0.323
704	4	74	4.320E+01	-6.884E-02	5.160E-02	1.829E-03	-1.692E-01	-1.207E+00	-1.73E+03	-4.23E+02	-1.86E+02	0.325
			-6.306E+01	-9.734E-02	-5.324E-02	-2.074E-03	-1.469E-02	9.014E-01	-2.52E+03	-3.67E+01	1.39E+02	0.375
		75	-6.306E+01	-5.179E-02	-5.324E-02	-2.074E-03	-1.877E-01	4.630E-01	-2.52E+03	-4.69E+02	7.16E+01	0.425
705	1	75	6.491E+01	2.125E-01	-5.479E-02	2.622E-03	1.881E-01	-6.388E-01	-2.60E+03	4.70E+02	-9.87E+01	0.440
			-6.081E+01	-1.146E-01	5.915E-02	-2.448E-03	4.105E-03	1.433E+00	-2.43E+03	1.03E+01	2.21E+02	0.370
		76	-6.081E+01	-6.902E-02	5.915E-02	-2.448E-03	1.963E-01	1.770E+00	-2.43E+03	4.91E+02	2.73E+02	0.444
705	2	75	6.081E+01	1.601E-01	-5.915E-02	2.448E-03	1.742E-01	-9.808E-01	-2.43E+03	4.35E+02	-1.52E+02	0.419
			-6.491E+01	-1.670E-01	5.479E-02	-2.622E-03	3.872E-03	1.250E+00	-2.60E+03	9.68E+00	1.93E+02	0.389
		76	-6.491E+01	-1.214E-01	5.479E-02	-2.622E-03	1.819E-01	1.680E+00	-2.60E+03	4.55E+02	2.60E+02	0.460
705	3	75	7.268E+01	2.968E-01	-5.480E-02	3.122E-03	1.898E-01	-4.621E-01	-2.91E+03	4.75E+02	-7.14E+01	0.480
			-5.305E+01	-3.028E-02	5.913E-02	-1.948E-03	1.964E-02	1.360E+00	-2.12E+03	4.91E+01	2.10E+02	0.331
		76	-5.305E+01	1.526E-02	5.913E-02	-1.948E-03	2.118E-01	2.096E+00	-2.12E+03	5.30E+02	3.24E+02	0.413
705	4	75	5.305E+01	7.583E-02	-5.913E-02	1.948E-03	1.725E-01	-1.158E+00	-2.12E+03	4.31E+02	-1.79E+02	0.379
			-7.268E+01	-2.512E-01	5.480E-02	-3.122E-03	-1.166E-02	1.322E+00	-2.91E+03	-2.92E+01	2.04E+02	0.436
		76	-7.268E+01	-2.057E-01	5.480E-02	-3.122E-03	1.665E-01	1.354E+00	-2.91E+03	4.16E+02	2.09E+02	0.491
706	1	76	6.561E+01	-7.642E-02	5.906E-02	-2.312E-03	-1.822E-01	-1.680E+00	-2.62E+03	-4.55E+02	-2.60E+02	0.464
			-6.012E+01	1.596E-01	-5.487E-02	2.765E-03	4.120E-03	1.410E+00	-2.40E+03	1.03E+01	2.18E+02	0.366
		77	-6.012E+01	2.051E-01	-5.487E-02	2.765E-03	-1.745E-01	9.324E-01	-2.40E+03	-4.36E+02	1.44E+02	0.415
706	2	76	6.012E+01	-1.140E-01	5.487E-02	-2.765E-03	-1.961E-01	-1.770E+00	-2.40E+03	-4.90E+02	-2.73E+02	0.440
			-6.561E+01	1.220E-01	-5.906E-02	2.312E-03	3.858E-03	1.272E+00	-2.62E+03	9.65E+00	1.97E+02	0.393
		77	-6.561E+01	1.675E-01	-5.906E-02	2.312E-03	-1.878E-01	6.871E-01	-2.62E+03	-4.70E+02	1.06E+02	0.444
706	3	76	7.255E+01	1.628E-02	5.932E-02	-2.393E-03	-1.659E-01	-1.353E+00	-2.90E+03	-4.15E+02	-2.09E+02	0.490
			-5.318E+01	2.523E-01	-5.461E-02	2.685E-03	1.961E-02	1.359E+00	-2.13E+03	4.90E+01	2.10E+02	0.331
		77	-5.318E+01	2.978E-01	-5.461E-02	2.685E-03	-1.731E-01	1.164E+00	-2.13E+03	-4.33E+02	1.80E+02	0.381
706	4	76	5.318E+01	-2.067E-01	5.461E-02	-2.685E-03	-2.124E-01	-2.096E+00	-2.13E+03	-5.31E+02	-3.24E+02	0.414
			-7.255E+01	2.926E-02	-5.932E-02	2.393E-03	-1.163E-02	1.324E+00	-2.90E+03	-2.91E+01	2.05E+02	0.435
		77	-7.255E+01	7.480E-02	-5.932E-02	2.393E-03	-1.892E-01	4.556E-01	-2.90E+03	-4.73E+02	7.04E+01	0.479

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707	1	77	5.489E+01	7.427E-02	-5.064E-02	-1.852E-03	1.834E-01	-6.871E-01	-2.20E+03	4.58E+02	-1.06E+02	0.383
			-5.138E+01	1.166E-02	5.421E-02	2.057E-03	-5.947E-03	9.707E-01	-2.06E+03	-1.49E+01	1.50E+02	0.308
		78	-5.138E+01	5.720E-02	5.421E-02	2.057E-03	1.690E-01	8.891E-01	-2.06E+03	4.22E+02	1.37E+02	0.363
707	2	77	5.138E+01	3.388E-02	-5.421E-02	-2.057E-03	1.706E-01	-9.324E-01	-2.06E+03	4.26E+02	-1.44E+02	0.365
			-5.489E+01	-2.873E-02	5.064E-02	1.852E-03	-7.267E-03	8.523E-01	-2.20E+03	-1.82E+01	1.32E+02	0.326
		78	-5.489E+01	1.681E-02	5.064E-02	1.852E-03	1.585E-01	8.413E-01	-2.20E+03	3.96E+02	1.30E+02	0.378
707	3	77	6.312E+01	1.615E-01	-5.143E-02	-1.438E-03	1.882E-01	-4.567E-01	-2.52E+03	4.71E+02	-7.06E+01	0.426
			-4.314E+01	9.888E-02	5.341E-02	2.471E-03	1.452E-03	9.220E-01	-1.73E+03	3.63E+00	1.42E+02	0.260
		78	-4.314E+01	1.444E-01	5.341E-02	2.471E-03	1.687E-01	1.211E+00	-1.73E+03	4.22E+02	1.87E+02	0.324
707	4	77	4.314E+01	-5.333E-02	-5.341E-02	-2.471E-03	1.657E-01	-1.163E+00	-1.73E+03	4.14E+02	-1.80E+02	0.322
			-6.312E+01	-1.159E-01	5.143E-02	1.438E-03	-1.467E-02	9.010E-01	-2.52E+03	-3.67E+01	1.39E+02	0.375
		78	-6.312E+01	-7.040E-02	5.143E-02	1.438E-03	1.589E-01	5.199E-01	-2.52E+03	3.97E+02	8.03E+01	0.417
708	1	78	5.493E+01	1.249E-01	4.683E-02	-2.591E-03	-1.549E-01	-8.373E-01	-2.20E+03	-3.87E+02	-1.29E+02	0.377
			-5.136E+01	-4.840E-02	-4.438E-02	3.802E-03	1.273E-02	1.190E+00	-2.05E+03	3.18E+01	1.84E+02	0.315
		79	-5.136E+01	-2.857E-03	-4.438E-02	3.802E-03	-1.334E-01	1.371E+00	-2.05E+03	-3.33E+02	2.12E+02	0.361
708	2	78	5.136E+01	9.394E-02	4.438E-02	-3.802E-03	-1.646E-01	-8.853E-01	-2.05E+03	-4.12E+02	-1.37E+02	0.361
			-5.493E+01	-7.937E-02	-4.683E-02	2.591E-03	1.042E-02	1.096E+00	-2.20E+03	2.61E+01	1.69E+02	0.332
		79	-5.493E+01	-3.383E-02	-4.683E-02	2.591E-03	-1.399E-01	1.182E+00	-2.20E+03	-3.50E+02	1.83E+02	0.379
708	3	78	6.085E+01	2.080E-01	4.767E-02	-2.978E-03	-1.524E-01	-5.134E-01	-2.43E+03	-3.81E+02	-7.93E+01	0.402
			-4.544E+01	3.472E-02	-4.354E-02	3.414E-03	2.538E-02	1.173E+00	-1.82E+03	6.34E+01	1.81E+02	0.286
		79	-4.544E+01	8.027E-02	-4.354E-02	3.414E-03	-1.162E-01	1.570E+00	-1.82E+03	-2.91E+02	2.43E+02	0.326
708	4	78	4.544E+01	1.082E-02	4.354E-02	-3.414E-03	-1.672E-01	-1.209E+00	-1.82E+03	-4.18E+02	-1.87E+02	0.336
			-6.085E+01	-1.625E-01	-4.767E-02	2.978E-03	-2.222E-03	1.113E+00	-2.43E+03	-5.55E+00	1.72E+02	0.363
		79	-6.085E+01	-1.170E-01	-4.767E-02	2.978E-03	-1.570E-01	9.830E-01	-2.43E+03	-3.93E+02	1.52E+02	0.414
709	1	79	3.328E+01	-7.177E-02	-3.377E-02	-3.236E-03	1.310E-01	-1.182E+00	-1.33E+03	3.28E+02	-1.83E+02	0.256
			-3.097E+01	1.466E-01	3.692E-02	3.612E-03	-8.890E-03	9.692E-01	-1.24E+03	-2.22E+01	1.50E+02	0.196
		80	-3.097E+01	1.922E-01	3.692E-02	3.612E-03	1.107E-01	4.296E-01	-1.24E+03	2.77E+02	6.64E+01	0.220
709	2	79	3.097E+01	-1.011E-01	-3.692E-02	-3.612E-03	1.251E-01	-1.371E+00	-1.24E+03	3.13E+02	-2.12E+02	0.245
			-3.328E+01	1.173E-01	3.377E-02	3.236E-03	-1.744E-02	8.741E-01	-1.33E+03	-4.36E+01	1.35E+02	0.210
		80	-3.328E+01	1.629E-01	3.377E-02	3.236E-03	9.277E-02	4.078E-01	-1.33E+03	2.32E+02	6.30E+01	0.226
709	3	79	4.043E+01	-9.817E-03	-3.087E-02	-2.857E-03	1.542E-01	-9.856E-01	-1.62E+03	3.85E+02	-1.52E+02	0.299
			-2.383E+01	2.086E-01	3.982E-02	3.990E-03	-1.545E-03	9.641E-01	-9.53E+02	-3.86E+00	1.49E+02	0.154
		80	-2.383E+01	2.541E-01	3.982E-02	3.990E-03	1.048E-01	6.260E-01	-9.53E+02	2.62E+02	9.67E+01	0.182
709	4	79	2.383E+01	-1.630E-01	-3.982E-02	-3.990E-03	1.019E-01	-1.567E+00	-9.53E+02	2.55E+02	-2.42E+02	0.201
			-4.043E+01	5.536E-02	3.087E-02	2.857E-03	-2.478E-02	8.791E-01	-1.62E+03	-6.20E+01	1.36E+02	0.252
		80	-4.043E+01	1.009E-01	3.087E-02	2.857E-03	9.862E-02	2.114E-01	-1.62E+03	2.47E+02	3.27E+01	0.263
710	1	80	3.333E+01	5.383E-02	3.137E-02	-2.114E-03	-8.368E-02	-4.105E-01	-1.33E+03	-2.09E+02	-6.34E+01	0.223
			-3.097E+01	5.898E-03	-1.567E-02	5.943E-03	3.294E-02	5.216E-01	-1.24E+03	8.24E+01	8.06E+01	0.195
		81	-3.097E+01	5.144E-02	-1.567E-02	5.943E-03	-1.802E-02	4.731E-01	-1.24E+03	-4.51E+01	7.31E+01	0.188
710	2	80	3.097E+01	3.964E-02	1.567E-02	-5.943E-03	-1.026E-01	-4.328E-01	-1.24E+03	-2.56E+02	-6.69E+01	0.217
			-3.333E+01	-8.288E-03	-3.137E-02	2.114E-03	4.300E-04	4.776E-01	-1.33E+03	1.08E+00	7.38E+01	0.196
		81	-3.333E+01	3.725E-02	-3.137E-02	2.114E-03	-1.015E-01	3.858E-01	-1.33E+03	-2.54E+02	5.96E+01	0.229
710	3	80	3.445E+01	9.562E-02	2.470E-02	-3.392E-03	-9.059E-02	-2.116E-01	-1.38E+03	-2.26E+02	-3.27E+01	0.227
			-2.985E+01	4.768E-02	-2.234E-02	4.664E-03	2.198E-02	5.510E-01	-1.19E+03	5.50E+01	8.52E+01	0.185
		81	-2.985E+01	9.323E-02	-2.234E-02	4.664E-03	-5.086E-02	5.372E-01	-1.19E+03	-1.27E+02	8.30E+01	0.195
710	4	80	2.985E+01	-2.142E-03	2.234E-02	-4.664E-03	-9.565E-02	-6.318E-01	-1.19E+03	-2.39E+02	-9.76E+01	0.213

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			-3.445E+01	-5.007E-02	-2.470E-02	3.392E-03	1.139E-02	4.481E-01	-1.38E+03	2.85E+01	6.93E+01	0.205
		81	-3.445E+01	-4.532E-03	-2.470E-02	3.392E-03	-6.864E-02	3.217E-01	-1.38E+03	-1.72E+02	4.97E+01	0.222
711	1	81	8.159E-01	-1.417E-01	2.408E-02	9.537E-05	9.826E-02	-3.857E-01	-3.26E+01	2.46E+02	-5.96E+01	0.047
			1.245E-01	2.171E-01	4.564E-02	5.754E-03	5.009E-02	-1.479E-01	4.98E+00	1.25E+02	-2.29E+01	0.021
		82	1.245E-01	2.627E-01	4.564E-02	5.754E-03	1.984E-01	-8.311E-01	4.98E+00	4.96E+02	-1.28E+02	0.087
711	2	81	-1.245E-01	-1.716E-01	-4.564E-02	-5.754E-03	-1.444E-03	-4.732E-01	4.98E+00	-3.61E+00	-7.31E+01	0.011
			-8.159E-01	1.872E-01	-2.408E-02	-9.537E-05	-7.682E-02	-1.593E-01	-3.26E+01	-1.92E+02	-2.46E+01	0.035
		82	-8.159E-01	2.328E-01	-2.408E-02	-9.537E-05	-1.551E-01	-9.383E-01	-3.26E+01	-3.88E+02	-1.45E+02	0.079
711	3	81	3.489E+00	-1.297E-01	-1.486E-03	4.569E-03	6.873E-02	-3.252E-01	-1.40E+02	1.72E+02	-5.03E+01	0.050
			2.798E+00	2.291E-01	2.008E-02	1.023E-02	-3.413E-03	-1.346E-01	1.12E+02	-8.53E+00	-2.08E+01	0.020
		82	2.798E+00	2.746E-01	2.008E-02	1.023E-02	6.181E-02	-8.128E-01	1.12E+02	1.55E+02	-1.26E+02	0.054
711	4	81	-2.798E+00	-1.835E-01	-2.008E-02	-1.023E-02	2.809E-02	-5.336E-01	1.12E+02	7.02E+01	-8.25E+01	0.037
			-3.489E+00	1.752E-01	1.486E-03	-4.569E-03	-2.332E-02	-1.726E-01	-1.40E+02	-5.83E+01	-2.67E+01	0.031
		82	-3.489E+00	2.208E-01	1.486E-03	-4.569E-03	-1.846E-02	-9.565E-01	-1.40E+02	-4.61E+01	-1.48E+02	0.046
900	1	900	1.978E-05	1.719E+01	8.234E+00	6.166E+00	2.259E+01	4.716E+01	-3.35E-04	4.18E+03	1.51E+03	0.791
			1.978E-05	-1.658E+01	8.215E+00	6.152E+00	1.132E+01	-2.276E+01	3.35E-04	2.10E+03	-7.30E+02	0.393
		908	1.978E-05	-1.653E+01	8.215E+00	6.152E+00	2.054E-14	-2.819E-14	3.35E-04	3.80E-12	-9.03E-13	0.000
900	2	900	-1.978E-05	1.662E+01	-8.215E+00	-6.152E+00	-2.264E+01	4.559E+01	3.35E-04	-4.19E+03	1.46E+03	0.785
			-1.978E-05	-1.715E+01	-8.234E+00	-6.166E+00	-1.130E+01	-2.355E+01	-3.35E-04	-2.09E+03	-7.55E+02	0.395
		908	-1.978E-05	-1.710E+01	-8.234E+00	-6.166E+00	-2.056E-14	-2.866E-14	-3.35E-04	-3.81E-12	-9.18E-13	0.000
900	3	900	9.715E-03	2.085E+01	1.288E+00	9.656E-01	3.488E+00	5.720E+01	-1.65E-01	6.46E+02	1.83E+03	0.344
			9.715E-03	-1.292E+01	1.268E+00	9.512E-01	1.770E+00	-1.774E+01	1.65E-01	3.28E+02	-5.69E+02	0.125
		908	9.715E-03	-1.288E+01	1.268E+00	9.512E-01	1.503E-15	2.008E-14	1.65E-01	2.78E-13	6.44E-13	0.000
900	4	900	-9.715E-03	1.297E+01	-1.268E+00	-9.512E-01	-3.541E+00	3.554E+01	1.65E-01	-6.56E+02	1.14E+03	0.249
			-9.715E-03	-2.080E+01	-1.288E+00	-9.656E-01	-1.744E+00	-2.857E+01	-1.65E-01	-3.23E+02	-9.16E+02	0.172
		908	-9.715E-03	-2.076E+01	-1.288E+00	-9.656E-01	-1.517E-15	-7.693E-14	-1.65E-01	-2.81E-13	-2.47E-12	0.000
901	1	909	1.422E-02	-1.654E+01	8.247E+00	6.175E+00	1.474E-13	9.273E-03	-2.41E-01	2.73E-11	2.97E-01	0.000
			1.238E-02	1.714E+01	8.227E+00	6.161E+00	1.131E+01	-2.277E+01	2.10E-01	2.09E+03	-7.30E+02	0.392
		902	1.238E-02	1.719E+01	8.227E+00	6.161E+00	2.263E+01	-4.561E+01	2.10E-01	4.19E+03	-1.46E+03	0.785
901	2	909	-1.238E-02	-1.709E+01	-8.227E+00	-6.161E+00	-1.474E-13	-1.065E-02	2.10E-01	-2.73E-11	-3.41E-01	0.000
			-1.422E-02	1.659E+01	-8.247E+00	-6.175E+00	-1.134E+01	-2.354E+01	-2.41E-01	-2.10E+03	-7.54E+02	0.396
		902	-1.422E-02	1.663E+01	-8.247E+00	-6.175E+00	-2.268E+01	-4.714E+01	-2.41E-01	-4.20E+03	-1.51E+03	0.793
901	3	909	8.071E+00	-1.284E+01	1.270E+00	9.527E-01	9.479E-16	6.045E+00	-1.37E+02	1.76E-13	1.94E+02	0.046
			8.069E+00	2.084E+01	1.251E+00	9.383E-01	1.721E+00	-1.167E+01	1.37E+02	3.19E+02	-3.74E+02	0.115
		902	8.069E+00	2.088E+01	1.251E+00	9.383E-01	3.441E+00	-2.943E+01	1.37E+02	6.37E+02	-9.43E+02	0.239
901	4	909	-8.069E+00	-2.079E+01	-1.251E+00	-9.383E-01	-9.393E-16	-6.046E+00	1.37E+02	-1.74E-13	-1.94E+02	0.046
			-8.071E+00	1.289E+01	-1.270E+00	-9.527E-01	-1.747E+00	-3.464E+01	-1.37E+02	-3.23E+02	-1.11E+03	0.218
		902	-8.071E+00	1.293E+01	-1.270E+00	-9.527E-01	-3.494E+00	-6.331E+01	-1.37E+02	-6.47E+02	-2.03E+03	0.391
902	1	903	4.384E-05	1.756E+01	9.152E-03	2.977E-17	2.517E-02	4.816E+01	-7.43E-04	4.66E+00	1.54E+03	0.215
			4.384E-05	-1.621E+01	9.152E-03	2.977E-17	1.258E-02	-2.226E+01	7.43E-04	2.33E+00	-7.13E+02	0.099
		910	4.384E-05	-1.617E+01	9.152E-03	2.977E-17	3.349E-16	-1.354E-14	7.43E-04	6.20E-14	-4.34E-13	0.000
902	2	903	-4.384E-05	1.626E+01	-9.152E-03	-2.977E-17	-2.517E-02	4.458E+01	7.43E-04	-4.66E+00	1.43E+03	0.199
			-4.384E-05	-1.751E+01	-9.152E-03	-2.977E-17	-1.258E-02	-2.405E+01	-7.43E-04	-2.33E+00	-7.71E+02	0.107
		910	-4.384E-05	-1.747E+01	-9.152E-03	-2.977E-17	-3.349E-16	-1.488E-14	-7.43E-04	-6.20E-14	-4.77E-13	0.000
902	3	903	9.483E-03	2.096E+01	2.048E-11	5.755E-26	5.632E-11	5.751E+01	-1.61E-01	1.04E-08	1.84E+03	0.256
			9.483E-03	-1.281E+01	2.048E-11	5.755E-26	2.816E-11	-1.759E+01	1.61E-01	5.22E-09	-5.64E+02	0.078

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		910	9.483E-03	-1.277E+01	2.048E-11	5.755E-26	9.909E-25	8.281E-14	1.61E-01	1.84E-22	2.65E-12	0.000
902	4	903	-9.483E-03	1.286E+01	-2.048E-11	-5.755E-26	-5.632E-11	3.524E+01	1.61E-01	-1.04E-08	1.13E+03	0.157
			-9.483E-03	-2.091E+01	-2.048E-11	-5.755E-26	-2.816E-11	-2.872E+01	-1.61E-01	-5.22E-09	-9.21E+02	0.128
		910	-9.483E-03	-2.087E+01	-2.048E-11	-5.755E-26	-9.909E-25	-1.112E-13	-1.61E-01	-1.84E-22	-3.57E-12	0.000
903	1	911	1.701E-02	-1.620E+01	9.152E-03	5.955E-17	8.097E-16	1.411E-02	-2.88E-01	1.50E-13	4.52E-01	0.000
			1.885E-02	1.748E+01	9.152E-03	5.955E-17	1.258E-02	-2.231E+01	3.19E-01	2.33E+00	-7.15E+02	0.100
		905	1.885E-02	1.753E+01	9.152E-03	5.955E-17	2.517E-02	-4.468E+01	3.19E-01	4.66E+00	-1.43E+03	0.200
903	2	911	-1.885E-02	-1.744E+01	-9.152E-03	-5.955E-17	-8.097E-16	-1.273E-02	3.19E-01	-1.50E-13	-4.08E-01	0.000
			-1.701E-02	1.624E+01	-9.152E-03	-5.955E-17	-1.258E-02	-2.400E+01	-2.88E-01	-2.33E+00	-7.69E+02	0.107
		905	-1.701E-02	1.629E+01	-9.152E-03	-5.955E-17	-2.517E-02	-4.807E+01	-2.88E-01	-4.66E+00	-1.54E+03	0.215
903	3	911	7.766E+00	-1.273E+01	2.049E-11	1.192E-25	1.889E-24	5.819E+00	-1.32E+02	3.50E-22	1.86E+02	0.044
			7.767E+00	2.095E+01	2.049E-11	1.192E-25	2.818E-11	-1.174E+01	1.32E+02	5.22E-09	-3.76E+02	0.071
		905	7.767E+00	2.099E+01	2.049E-11	1.192E-25	5.636E-11	-2.935E+01	1.32E+02	1.04E-08	-9.41E+02	0.149
903	4	911	-7.767E+00	-2.090E+01	-2.049E-11	-1.192E-25	-1.889E-24	-5.817E+00	1.32E+02	-3.50E-22	-1.86E+02	0.044
			-7.766E+00	1.278E+01	-2.049E-11	-1.192E-25	-2.818E-11	-3.457E+01	-1.32E+02	-5.22E-09	-1.11E+03	0.172
		905	-7.766E+00	1.282E+01	-2.049E-11	-1.192E-25	-5.636E-11	-6.340E+01	-1.32E+02	-1.04E-08	-2.03E+03	0.300
904	1	901	3.868E-05	1.721E+01	8.245E+00	6.166E+00	3.082E+01	6.436E+01	-1.11E-03	0.00E+00	0.00E+00	0.000
			3.868E-05	-1.663E+01	8.226E+00	6.152E+00	2.677E+01	-5.390E+01	1.11E-03	0.00E+00	0.00E+00	0.000
		900	3.868E-05	-1.662E+01	8.226E+00	6.152E+00	2.264E+01	-4.559E+01	1.11E-03	0.00E+00	0.00E+00	0.000
904	2	901	-3.868E-05	1.664E+01	-8.226E+00	-6.152E+00	-3.089E+01	6.222E+01	1.11E-03	0.00E+00	0.00E+00	0.000
			-3.868E-05	-1.720E+01	-8.245E+00	-6.166E+00	-2.670E+01	-5.576E+01	-1.11E-03	0.00E+00	0.00E+00	0.000
		900	-3.868E-05	-1.719E+01	-8.245E+00	-6.166E+00	-2.259E+01	-4.716E+01	-1.11E-03	0.00E+00	0.00E+00	0.000
904	3	901	1.899E-02	2.087E+01	1.288E+00	9.656E-01	4.757E+00	7.806E+01	-5.43E-01	0.00E+00	0.00E+00	0.000
			1.899E-02	-1.298E+01	1.268E+00	9.512E-01	4.185E+00	-4.203E+01	5.43E-01	0.00E+00	0.00E+00	0.000
		900	1.899E-02	-1.297E+01	1.268E+00	9.512E-01	3.541E+00	-3.554E+01	5.43E-01	0.00E+00	0.00E+00	0.000
904	4	901	-1.899E-02	1.299E+01	-1.268E+00	-9.512E-01	-4.828E+00	4.852E+01	5.43E-01	0.00E+00	0.00E+00	0.000
			-1.899E-02	-2.086E+01	-1.288E+00	-9.656E-01	-4.123E+00	-6.763E+01	-5.43E-01	0.00E+00	0.00E+00	0.000
		900	-1.899E-02	-2.085E+01	-1.288E+00	-9.656E-01	-3.488E+00	-5.720E+01	-5.43E-01	0.00E+00	0.00E+00	0.000
905	1	902	1.424E-02	-1.663E+01	8.258E+00	6.175E+00	2.268E+01	4.714E+01	-4.07E-01	0.00E+00	0.00E+00	0.000
			1.240E-02	1.720E+01	8.239E+00	6.161E+00	2.674E+01	-5.393E+01	3.54E-01	0.00E+00	0.00E+00	0.000
		901	1.240E-02	1.720E+01	8.239E+00	6.161E+00	3.086E+01	-6.225E+01	3.54E-01	0.00E+00	0.00E+00	0.000
905	2	902	-1.240E-02	-1.719E+01	-8.239E+00	-6.161E+00	-2.263E+01	4.561E+01	3.54E-01	0.00E+00	0.00E+00	0.000
			-1.424E-02	1.664E+01	-8.258E+00	-6.175E+00	-2.681E+01	-5.573E+01	-4.07E-01	0.00E+00	0.00E+00	0.000
		901	-1.424E-02	1.665E+01	-8.258E+00	-6.175E+00	-3.094E+01	-6.433E+01	-4.07E-01	0.00E+00	0.00E+00	0.000
905	3	902	8.080E+00	-1.293E+01	1.270E+00	9.527E-01	3.494E+00	6.331E+01	-2.31E+02	0.00E+00	0.00E+00	0.032
			8.078E+00	2.089E+01	1.251E+00	9.383E-01	4.067E+00	-3.590E+01	2.31E+02	0.00E+00	0.00E+00	0.032
		901	8.078E+00	2.090E+01	1.251E+00	9.383E-01	4.692E+00	-4.238E+01	2.31E+02	0.00E+00	0.00E+00	0.032
905	4	902	-8.078E+00	-2.088E+01	-1.251E+00	-9.383E-01	-3.441E+00	2.943E+01	2.31E+02	0.00E+00	0.00E+00	0.032
			-8.080E+00	1.294E+01	-1.270E+00	-9.527E-01	-4.129E+00	-7.376E+01	-2.31E+02	0.00E+00	0.00E+00	0.032
		901	-8.080E+00	1.295E+01	-1.270E+00	-9.527E-01	-4.764E+00	-8.420E+01	-2.31E+02	0.00E+00	0.00E+00	0.032
906	1	904	8.572E-05	1.758E+01	1.782E-02	7.574E-26	4.299E-02	6.573E+01	-2.45E-03	0.00E+00	0.00E+00	0.000
			8.572E-05	-1.627E+01	1.782E-02	7.574E-26	3.408E-02	-5.271E+01	2.45E-03	0.00E+00	0.00E+00	0.000
		903	8.572E-05	-1.626E+01	1.782E-02	7.574E-26	2.517E-02	-4.458E+01	2.45E-03	0.00E+00	0.00E+00	0.000
906	2	904	-8.572E-05	1.628E+01	-1.782E-02	-7.574E-26	-4.299E-02	6.085E+01	2.45E-03	0.00E+00	0.00E+00	0.000
			-8.572E-05	-1.757E+01	-1.782E-02	-7.574E-26	-3.408E-02	-5.695E+01	-2.45E-03	0.00E+00	0.00E+00	0.000
		903	-8.572E-05	-1.756E+01	-1.782E-02	-7.574E-26	-2.517E-02	-4.816E+01	-2.45E-03	0.00E+00	0.00E+00	0.000

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906	3	904	1.854E-02	2.098E+01	3.988E-11	4.702E-25	9.620E-11	7.848E+01	-5.30E-01	0.00E+00	0.00E+00	0.000
			1.854E-02	-1.287E+01	3.988E-11	4.702E-25	7.626E-11	-4.167E+01	5.30E-01	0.00E+00	0.00E+00	0.000
		903	1.854E-02	-1.286E+01	3.988E-11	4.702E-25	5.632E-11	-3.524E+01	5.30E-01	0.00E+00	0.00E+00	0.000
906	4	904	-1.854E-02	1.288E+01	-3.988E-11	-4.702E-25	-9.620E-11	4.810E+01	5.30E-01	0.00E+00	0.00E+00	0.000
			-1.854E-02	-2.097E+01	-3.988E-11	-4.702E-25	-7.626E-11	-6.799E+01	-5.30E-01	0.00E+00	0.00E+00	0.000
		903	-1.854E-02	-2.096E+01	-3.988E-11	-4.702E-25	-5.632E-11	-5.751E+01	-5.30E-01	0.00E+00	0.00E+00	0.000
910	1	910	1.747E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.96E+02	0.00E+00	0.00E+00	0.041
			-1.615E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.74E+02	0.00E+00	0.00E+00	0.038
		9910	-1.614E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.74E+02	0.00E+00	0.00E+00	0.038
910	2	910	1.617E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.74E+02	0.00E+00	0.00E+00	0.038
			-1.746E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.96E+02	0.00E+00	0.00E+00	0.041
		9910	-1.744E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.96E+02	0.00E+00	0.00E+00	0.041
910	3	910	2.087E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-3.54E+02	0.00E+00	0.00E+00	0.049
			-1.276E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.16E+02	0.00E+00	0.00E+00	0.030
		9910	-1.275E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.16E+02	0.00E+00	0.00E+00	0.030
910	4	910	1.277E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.16E+02	0.00E+00	0.00E+00	0.030
			-2.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-3.53E+02	0.00E+00	0.00E+00	0.049
		9910	-2.084E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-3.53E+02	0.00E+00	0.00E+00	0.049
911	1	911	1.744E+01	0.000E+00	1.881E-02	0.000E+00	1.273E-02	0.000E+00	-2.96E+02	2.36E+00	0.00E+00	0.041
			-1.618E+01	0.000E+00	1.697E-02	0.000E+00	7.053E-03	0.000E+00	-2.74E+02	1.31E+00	0.00E+00	0.038
		9911	-1.617E+01	0.000E+00	1.697E-02	0.000E+00	0.000E+00	0.000E+00	-2.74E+02	0.00E+00	0.00E+00	0.038
911	2	911	1.620E+01	0.000E+00	-1.697E-02	0.000E+00	-1.411E-02	0.000E+00	-2.75E+02	-2.61E+00	0.00E+00	0.038
			-1.742E+01	0.000E+00	-1.881E-02	0.000E+00	-6.364E-03	0.000E+00	-2.95E+02	-1.18E+00	0.00E+00	0.041
		9911	-1.741E+01	0.000E+00	-1.881E-02	0.000E+00	0.000E+00	0.000E+00	-2.95E+02	0.00E+00	0.00E+00	0.041
911	3	911	2.090E+01	0.000E+00	7.758E+00	0.000E+00	5.817E+00	0.000E+00	-3.54E+02	1.08E+03	0.00E+00	0.199
			-1.272E+01	0.000E+00	7.756E+00	0.000E+00	2.909E+00	0.000E+00	-2.16E+02	5.39E+02	0.00E+00	0.105
		9911	-1.271E+01	0.000E+00	7.756E+00	0.000E+00	0.000E+00	0.000E+00	-2.15E+02	0.00E+00	0.00E+00	0.030
911	4	911	1.273E+01	0.000E+00	-7.756E+00	0.000E+00	-5.819E+00	0.000E+00	-2.16E+02	-1.08E+03	0.00E+00	0.180
			-2.089E+01	0.000E+00	-7.758E+00	0.000E+00	-2.909E+00	0.000E+00	-3.54E+02	-5.39E+02	0.00E+00	0.124
		9911	-2.088E+01	0.000E+00	-7.758E+00	0.000E+00	0.000E+00	0.000E+00	-3.54E+02	0.00E+00	0.00E+00	0.049
912	1	9910	1.744E+01	5.025E-03	1.318E-05	1.743E-13	-3.875E-15	8.968E-13	-2.96E+02	-7.18E-13	2.87E-11	0.041
			-1.613E+01	5.025E-03	1.318E-05	8.062E-14	3.295E-06	1.256E-03	-2.73E+02	6.10E-04	4.03E-02	0.038
		22	-1.613E+01	5.025E-03	1.318E-05	8.062E-14	6.590E-06	2.512E-03	-2.73E+02	1.22E-03	8.05E-02	0.038
912	2	9910	1.614E+01	-5.025E-03	-1.318E-05	-8.062E-14	-1.034E-14	-1.693E-12	-2.74E+02	-1.91E-12	-5.43E-11	0.038
			-1.744E+01	-5.025E-03	-1.318E-05	-1.743E-13	-3.295E-06	-1.256E-03	-2.96E+02	-6.10E-04	-4.03E-02	0.041
		22	-1.743E+01	-5.025E-03	-1.318E-05	-1.743E-13	-6.590E-06	-2.512E-03	-2.95E+02	-1.22E-03	-8.05E-02	0.041
912	3	9910	2.084E+01	2.242E-04	3.622E-03	4.748E-14	1.861E-12	-3.594E-13	-3.53E+02	3.45E-10	-1.15E-11	0.049
			-1.274E+01	2.242E-04	3.622E-03	-4.622E-14	9.054E-04	5.605E-05	-2.16E+02	1.68E-01	1.80E-03	0.030
		22	-1.273E+01	2.242E-04	3.622E-03	-4.622E-14	1.811E-03	1.121E-04	-2.16E+02	3.35E-01	3.59E-03	0.030
912	4	9910	1.275E+01	-2.242E-04	-3.622E-03	4.622E-14	-1.875E-12	-4.364E-13	-2.16E+02	-3.47E-10	-1.40E-11	0.030
			-2.083E+01	-2.242E-04	-3.622E-03	-4.748E-14	-9.054E-04	-5.605E-05	-3.53E+02	-1.68E-01	-1.80E-03	0.049
		22	-2.082E+01	-2.242E-04	-3.622E-03	-4.748E-14	-1.811E-03	-1.121E-04	-3.53E+02	-3.35E-01	-3.59E-03	0.049
913	1	9911	1.741E+01	5.026E-03	1.880E-02	1.701E-13	-8.151E-15	-9.550E-13	-2.95E+02	-1.51E-12	-3.06E-11	0.041
			-1.616E+01	5.026E-03	1.696E-02	1.342E-13	4.240E-03	1.256E-03	-2.74E+02	7.85E-01	4.03E-02	0.038
		42	-1.616E+01	5.026E-03	1.696E-02	1.342E-13	8.479E-03	2.513E-03	-2.74E+02	1.57E+00	8.05E-02	0.038

913	2	9911	1.617E+01	-5.026E-03	-1.696E-02	-1.342E-13	-6.113E-14	-2.115E-12	-2.74E+02	-1.13E-11	-6.78E-11	0.038
			-1.740E+01	-5.026E-03	-1.880E-02	-1.701E-13	-4.699E-03	-1.256E-03	-2.95E+02	-8.70E-01	-4.03E-02	0.041
		42	-1.740E+01	-5.026E-03	-1.880E-02	-1.701E-13	-9.399E-03	-2.513E-03	-2.95E+02	-1.74E+00	-8.05E-02	0.041
913	3	9911	2.088E+01	2.213E-04	7.755E+00	3.013E-14	5.477E-13	-1.472E-12	-3.54E+02	1.01E-10	-4.72E-11	0.049
			-1.270E+01	2.213E-04	7.753E+00	-5.838E-15	1.938E+00	5.532E-05	-2.15E+02	3.59E+02	1.77E-03	0.080
		42	-1.269E+01	2.213E-04	7.753E+00	-5.838E-15	3.877E+00	1.106E-04	-2.15E+02	7.18E+02	3.55E-03	0.130
913	4	9911	1.271E+01	-2.213E-04	-7.753E+00	5.838E-15	-6.169E-13	-1.598E-12	-2.15E+02	-1.14E-10	-5.12E-11	0.030
			-2.087E+01	-2.213E-04	-7.755E+00	-3.013E-14	-1.939E+00	-5.532E-05	-3.54E+02	-3.59E+02	-1.77E-03	0.099
		42	-2.086E+01	-2.213E-04	-7.755E+00	-3.013E-14	-3.877E+00	-1.106E-04	-3.54E+02	-7.18E+02	-3.55E-03	0.149
914	1	908	1.710E+01	8.221E+00	0.000E+00	0.000E+00	0.000E+00	6.166E+00	-2.90E+02	0.00E+00	1.98E+02	0.068
			-1.652E+01	8.202E+00	0.000E+00	0.000E+00	0.000E+00	3.076E+00	-2.80E+02	0.00E+00	9.86E+01	0.053
		9908	-1.651E+01	8.202E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.80E+02	0.00E+00	0.00E+00	0.039
914	2	908	1.653E+01	-8.202E+00	0.000E+00	0.000E+00	0.000E+00	-6.152E+00	-2.80E+02	0.00E+00	-1.97E+02	0.066
			-1.709E+01	-8.221E+00	0.000E+00	0.000E+00	0.000E+00	-3.083E+00	-2.90E+02	0.00E+00	-9.88E+01	0.054
		9908	-1.708E+01	-8.221E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.89E+02	0.00E+00	0.00E+00	0.040
914	3	908	2.075E+01	1.287E+00	0.000E+00	0.000E+00	0.000E+00	9.656E-01	-3.52E+02	0.00E+00	3.09E+01	0.053
			-1.287E+01	1.268E+00	0.000E+00	0.000E+00	0.000E+00	4.756E-01	-2.18E+02	0.00E+00	1.52E+01	0.032
		9908	-1.286E+01	1.268E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.18E+02	0.00E+00	0.00E+00	0.030
914	4	908	1.288E+01	-1.268E+00	0.000E+00	0.000E+00	0.000E+00	-9.512E-01	-2.18E+02	0.00E+00	-3.05E+01	0.035
			-2.074E+01	-1.287E+00	0.000E+00	0.000E+00	0.000E+00	-4.828E-01	-3.52E+02	0.00E+00	-1.55E+01	0.051
		9908	-2.073E+01	-1.287E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-3.51E+02	0.00E+00	0.00E+00	0.049
915	1	909	1.709E+01	8.215E+00	1.236E-02	0.000E+00	1.065E-02	6.161E+00	-2.90E+02	1.97E+00	1.97E+02	0.068
			-1.653E+01	8.234E+00	1.420E-02	0.000E+00	4.637E-03	3.088E+00	-2.80E+02	8.59E-01	9.90E+01	0.053
		9909	-1.652E+01	8.234E+00	1.420E-02	0.000E+00	0.000E+00	0.000E+00	-2.80E+02	0.00E+00	0.00E+00	0.039
915	2	909	1.654E+01	-8.234E+00	-1.420E-02	0.000E+00	-9.273E-03	-6.175E+00	-2.80E+02	-1.72E+00	-1.98E+02	0.067
			-1.708E+01	-8.215E+00	-1.236E-02	0.000E+00	-5.326E-03	-3.081E+00	-2.90E+02	-9.86E-01	-9.87E+01	0.054
		9909	-1.707E+01	-8.215E+00	-1.236E-02	0.000E+00	0.000E+00	0.000E+00	-2.89E+02	0.00E+00	0.00E+00	0.040
915	3	909	2.079E+01	1.251E+00	8.060E+00	0.000E+00	6.046E+00	9.383E-01	-3.52E+02	1.12E+03	3.01E+01	0.209
			-1.283E+01	1.270E+00	8.062E+00	0.000E+00	3.022E+00	4.763E-01	-2.18E+02	5.60E+02	1.53E+01	0.110
		9909	-1.282E+01	1.270E+00	8.062E+00	0.000E+00	0.000E+00	0.000E+00	-2.17E+02	0.00E+00	0.00E+00	0.030
915	4	909	1.285E+01	-1.270E+00	-8.062E+00	0.000E+00	-6.045E+00	-9.527E-01	-2.18E+02	-1.12E+03	-3.05E+01	0.190
			-2.078E+01	-1.251E+00	-8.060E+00	0.000E+00	-3.023E+00	-4.692E-01	-3.52E+02	-5.60E+02	-1.50E+01	0.129
		9909	-2.076E+01	-1.251E+00	-8.060E+00	0.000E+00	0.000E+00	0.000E+00	-3.52E+02	0.00E+00	0.00E+00	0.049
916	1	9908	1.708E+01	8.217E+00	7.870E-06	2.260E-14	1.475E-14	3.663E-12	-2.89E+02	2.73E-12	1.17E-10	0.040
			-1.650E+01	8.198E+00	7.870E-06	2.682E-14	1.967E-06	2.054E+00	-2.80E+02	3.64E-04	6.58E+01	0.048
		10	-1.649E+01	8.198E+00	7.870E-06	2.682E-14	3.935E-06	4.108E+00	-2.79E+02	7.29E-04	1.32E+02	0.057
916	2	9908	1.651E+01	-8.198E+00	-7.870E-06	-2.682E-14	-1.653E-14	-4.004E-12	-2.80E+02	-3.06E-12	-1.28E-10	0.039
			-1.707E+01	-8.217E+00	-7.870E-06	-2.260E-14	-1.967E-06	-2.049E+00	-2.89E+02	-3.64E-04	-6.57E+01	0.049
		10	-1.706E+01	-8.217E+00	-7.870E-06	-2.260E-14	-3.935E-06	-4.099E+00	-2.89E+02	-7.29E-04	-1.31E+02	0.058
916	3	9908	2.073E+01	1.287E+00	3.710E-03	7.041E-15	1.091E-12	3.196E-14	-3.51E+02	2.02E-10	1.02E-12	0.049
			-1.285E+01	1.268E+00	3.710E-03	1.126E-14	9.275E-04	3.218E-01	-2.18E+02	1.72E-01	1.03E+01	0.032
		10	-1.284E+01	1.268E+00	3.710E-03	1.126E-14	1.855E-03	6.437E-01	-2.18E+02	3.44E-01	2.06E+01	0.033
916	4	9908	1.286E+01	-1.268E+00	-3.710E-03	-1.126E-14	-1.092E-12	-3.730E-13	-2.18E+02	-2.02E-10	-1.20E-11	0.030
			-2.072E+01	-1.287E+00	-3.710E-03	-7.041E-15	-9.275E-04	-3.171E-01	-3.51E+02	-1.72E-01	-1.02E+01	0.050
		10	-2.071E+01	-1.287E+00	-3.710E-03	-7.041E-15	-1.855E-03	-6.341E-01	-3.51E+02	-3.44E-01	-2.03E+01	0.052
917	1	9909	1.707E+01	8.210E+00	1.236E-02	2.957E-14	-7.356E-15	6.348E-12	-2.89E+02	-1.36E-12	2.03E-10	0.040

			-1.651E+01	8.229E+00	1.420E-02	3.623E-14	3.549E-03	2.053E+00	-2.80E+02	6.57E-01	6.58E+01	0.048
		30	-1.650E+01	8.229E+00	1.420E-02	3.623E-14	7.098E-03	4.105E+00	-2.80E+02	1.31E+00	1.32E+02	0.057
917	2	9909	1.652E+01	-8.229E+00	-1.420E-02	-3.623E-14	-2.639E-14	-6.121E-12	-2.80E+02	-4.89E-12	-1.96E-10	0.039
			-1.706E+01	-8.210E+00	-1.236E-02	-2.957E-14	-3.089E-03	-2.057E+00	-2.89E+02	-5.72E-01	-6.59E+01	0.049
		30	-1.705E+01	-8.210E+00	-1.236E-02	-2.957E-14	-6.179E-03	-4.115E+00	-2.89E+02	-1.14E+00	-1.32E+02	0.059
917	3	9909	2.076E+01	1.251E+00	8.056E+00	7.241E-17	1.754E-12	1.548E-13	-3.52E+02	3.25E-10	4.96E-12	0.049
			-1.281E+01	1.270E+00	8.058E+00	6.734E-15	2.015E+00	3.128E-01	-2.17E+02	3.73E+02	1.00E+01	0.083
		30	-1.281E+01	1.270E+00	8.058E+00	6.734E-15	4.029E+00	6.255E-01	-2.17E+02	7.46E+02	2.00E+01	0.137
917	4	9909	1.282E+01	-1.270E+00	-8.058E+00	-6.734E-15	-1.788E-12	7.260E-14	-2.17E+02	-3.31E-10	2.33E-12	0.030
			-2.076E+01	-1.251E+00	-8.056E+00	-7.241E-17	-2.014E+00	-3.175E-01	-3.52E+02	-3.73E+02	-1.02E+01	0.102
		30	-2.075E+01	-1.251E+00	-8.056E+00	-7.241E-17	-4.028E+00	-6.351E-01	-3.52E+02	-7.46E+02	-2.04E+01	0.155
907	1	905	1.705E-02	-1.629E+01	1.782E-02	5.636E-25	2.517E-02	4.807E+01	-4.87E-01	0.00E+00	0.00E+00	0.000
			1.889E-02	1.754E+01	1.782E-02	5.636E-25	3.408E-02	-5.283E+01	5.40E-01	0.00E+00	0.00E+00	0.000
		904	1.889E-02	1.755E+01	1.782E-02	5.636E-25	4.299E-02	-6.098E+01	5.40E-01	0.00E+00	0.00E+00	0.000
907	2	905	-1.889E-02	-1.753E+01	-1.782E-02	-5.636E-25	-2.517E-02	4.468E+01	5.40E-01	0.00E+00	0.00E+00	0.000
			-1.705E-02	1.630E+01	-1.782E-02	-5.636E-25	-3.408E-02	-5.683E+01	-4.87E-01	0.00E+00	0.00E+00	0.000
		904	-1.705E-02	1.631E+01	-1.782E-02	-5.636E-25	-4.299E-02	-6.560E+01	-4.87E-01	0.00E+00	0.00E+00	0.000
907	3	905	7.774E+00	-1.282E+01	3.989E-11	5.137E-25	5.636E-11	6.340E+01	-2.22E+02	0.00E+00	0.00E+00	0.031
			7.776E+00	2.101E+01	3.989E-11	5.137E-25	7.631E-11	-3.576E+01	2.22E+02	0.00E+00	0.00E+00	0.031
		904	7.776E+00	2.102E+01	3.989E-11	5.137E-25	9.625E-11	-4.218E+01	2.22E+02	0.00E+00	0.00E+00	0.031
907	4	905	-7.776E+00	-2.100E+01	-3.989E-11	-5.137E-25	-5.636E-11	2.935E+01	2.22E+02	0.00E+00	0.00E+00	0.031
			-7.774E+00	1.283E+01	-3.989E-11	-5.137E-25	-7.631E-11	-7.390E+01	-2.22E+02	0.00E+00	0.00E+00	0.031
		904	-7.774E+00	1.284E+01	-3.989E-11	-5.137E-25	-9.625E-11	-8.440E+01	-2.22E+02	0.00E+00	0.00E+00	0.031
908	1	906	3.592E+01	1.664E+01	1.266E-02	-2.258E-02	3.595E-01	3.809E+02	-2.97E+02	4.87E+00	2.59E+03	0.401
			-3.404E+01	1.664E+01	1.450E-02	1.208E-01	1.843E-01	1.966E+02	-2.81E+02	2.50E+00	1.33E+03	0.225
		901	-3.329E+01	1.664E+01	1.450E-02	1.208E-01	6.063E-02	1.233E+01	-2.75E+02	8.21E-01	8.37E+01	0.050
908	2	906	3.480E+01	-1.664E+01	-1.450E-02	-1.208E-01	-3.221E-01	-3.809E+02	-2.88E+02	-4.36E+00	-2.59E+03	0.400
			-3.517E+01	-1.664E+01	-1.266E-02	2.258E-02	-2.013E-01	-1.966E+02	-2.91E+02	-2.73E+00	-1.33E+03	0.226
		901	-3.442E+01	-1.664E+01	-1.266E-02	2.258E-02	-5.726E-02	-1.233E+01	-2.84E+02	-7.76E-01	-8.37E+01	0.051
908	3	906	3.540E+01	3.093E-02	8.221E+00	9.449E+00	2.176E+02	7.080E-01	-2.93E+02	2.95E+03	4.80E+00	0.451
			-3.456E+01	3.093E-02	8.223E+00	9.592E+00	1.266E+02	3.655E-01	-2.86E+02	1.71E+03	2.48E+00	0.278
		901	-3.381E+01	3.093E-02	8.223E+00	9.592E+00	3.568E+01	2.293E-02	-2.79E+02	4.83E+02	1.56E-01	0.106
908	4	906	3.531E+01	-3.093E-02	-8.223E+00	-9.592E+00	-2.176E+02	-7.080E-01	-2.92E+02	-2.95E+03	-4.80E+00	0.450
			-3.465E+01	-3.093E-02	-8.221E+00	-9.449E+00	-1.266E+02	-3.655E-01	-2.86E+02	-1.71E+03	-2.48E+00	0.278
		901	-3.390E+01	-3.093E-02	-8.221E+00	-9.449E+00	-3.567E+01	-2.293E-02	-2.80E+02	-4.83E+02	-1.56E-01	0.106
909	1	907	3.663E+01	1.565E-01	1.948E-02	1.164E-11	5.283E-01	3.466E+00	-3.03E+02	7.15E+00	2.35E+01	0.046
			-3.334E+01	1.565E-01	1.764E-02	1.164E-11	3.517E-01	1.733E+00	-2.76E+02	4.76E+00	1.18E+01	0.041
		904	-3.259E+01	1.565E-01	1.764E-02	1.164E-11	1.426E-01	3.811E-15	-2.69E+02	1.93E+00	2.59E-14	0.038
909	2	907	3.409E+01	-1.565E-01	-1.764E-02	-1.164E-11	-5.657E-01	-3.466E+00	-2.82E+02	-7.66E+00	-2.35E+01	0.043
			-3.588E+01	-1.565E-01	-1.948E-02	-1.164E-11	-3.347E-01	-1.733E+00	-2.97E+02	-4.53E+00	-1.18E+01	0.043
		904	-3.513E+01	-1.565E-01	-1.948E-02	-1.164E-11	-1.460E-01	-3.811E-15	-2.90E+02	-1.98E+00	-2.59E-14	0.041
909	3	907	3.540E+01	3.501E-10	7.916E+00	7.982E-13	2.114E+02	7.756E-09	-2.93E+02	2.86E+03	5.26E-08	0.438
			-3.456E+01	3.501E-10	7.914E+00	7.982E-13	1.238E+02	3.878E-09	-2.86E+02	1.68E+03	2.63E-08	0.273
		904	-3.381E+01	3.501E-10	7.914E+00	7.982E-13	3.629E+01	8.486E-24	-2.79E+02	4.91E+02	5.76E-23	0.107
909	4	907	3.531E+01	-3.501E-10	-7.914E+00	-7.982E-13	-2.114E+02	-7.756E-09	-2.92E+02	-2.86E+03	-5.26E-08	0.438
			-3.465E+01	-3.501E-10	-7.916E+00	-7.982E-13	-1.238E+02	-3.878E-09	-2.86E+02	-1.68E+03	-2.63E-08	0.273

D67/68

904 -3.390E+01 -3.501E-10 -7.916E+00 -7.982E-13 -3.629E+01 -8.486E-24 -2.80E+02 -4.92E+02 -5.76E-23 0.107

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E1 of 19

Subject T4 Elevated Rack Job No. 1086409002

E Rack Framing Design

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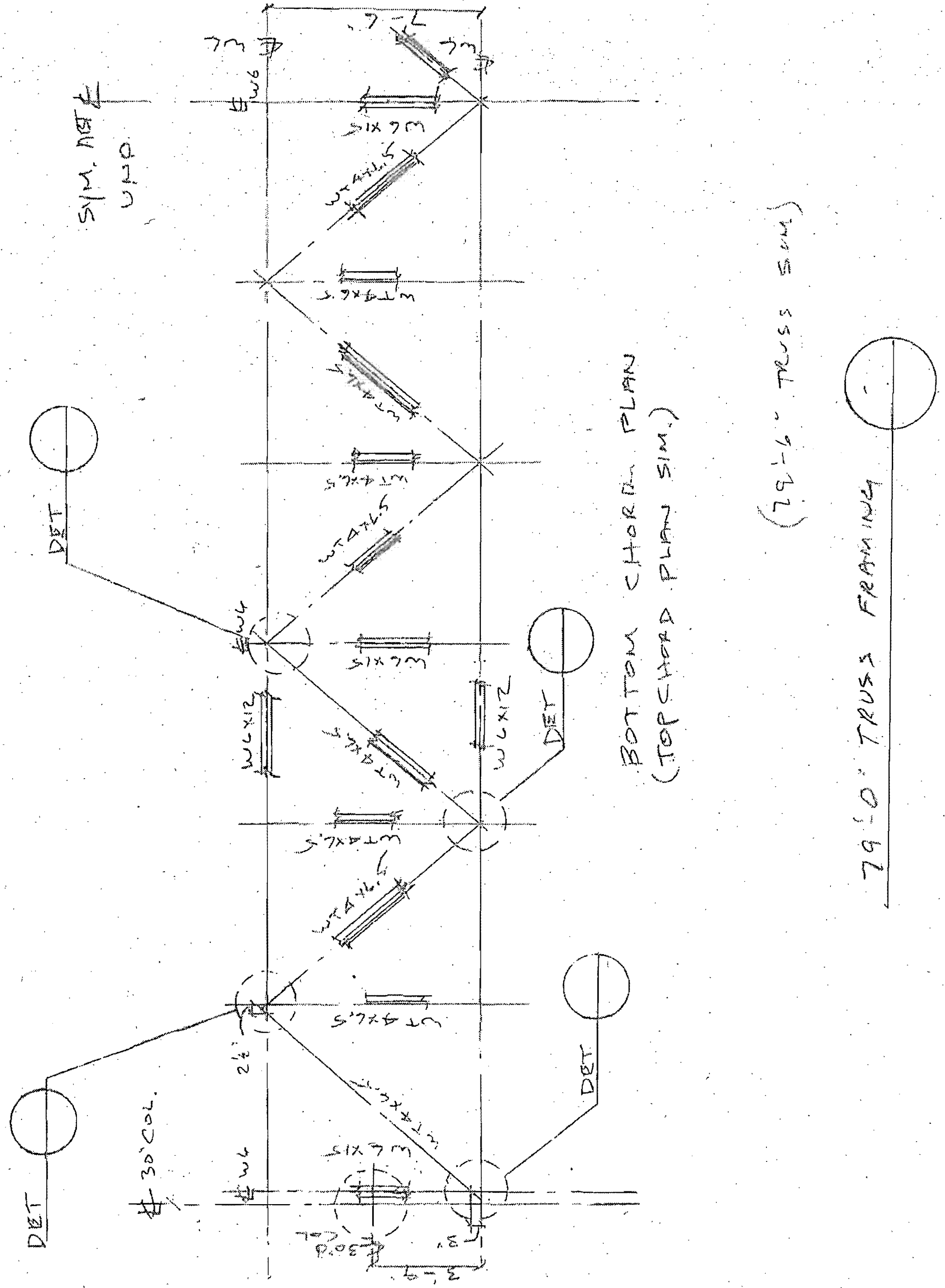
By L. Lewis Date 9/05 Client Port of Portland Sheet No. E2 of 14

Subject T4 Elevated Road Job No. 008640900 2



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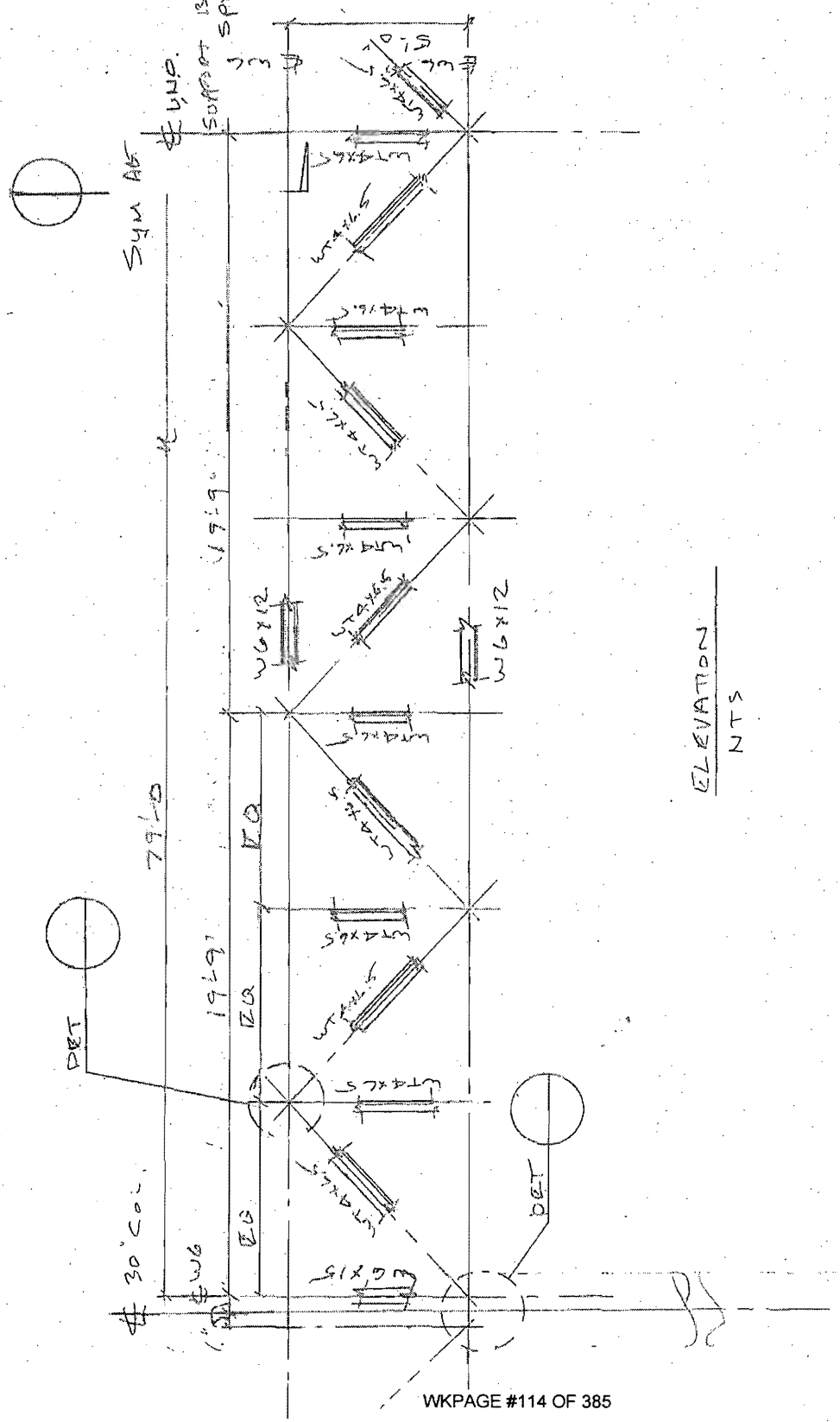
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E3 of 14

Subject T4 Elevated Rect Job No. DB6409002



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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E4 of 14

Subject T9 Elevated Rack Job No. 1086409002

Truss Framing

Top Chord W6x12 members 505, 506, 705, 706
Fy = 50 ksi

P = 73.7k mem 505, seg 3

$l = 6.5'$ $\frac{KL}{r} = \frac{.7 \times 6.5 \times 12}{.918} = 59.5$ $A = 3.55 in^2$
$r_y = .918$ in

$P_n = 38.4 \times 3.55 = 136.4$

$\frac{73.7}{136.4/1.67} = .90 < 1.0$ OK

Bottom Chord W6x12 members 205, 206, 305, 306

mem 205 seg 3 P = −67.3k
W6x12 OK by inspection

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E5 of 14

Subject T4 Elevated Rack Job No. 1086409002

Truss Framing

End Vertical Diagonals WT4x6.5 $F_y = 50$ ksi

$A = 1.92$ in^2 $r = .843$ in

mem. 50, 61, 70, 81 GRAVITY 18.61 K $L = 7.5'$

GRAVITY + EQ 19.2 K

GRAVITY LOAD CONTROLLING $\frac{KL}{r} = \frac{7.5 \times 12}{.843} = 111$

$F_a = 12.1$ ksi $f_a = 18.61/1.92 = 9.7$ ksi OK

Intermediate Pipe Supported Beams

Pipe wt on Beam = .043 x 19.6 = .843 k/ft KM WT = .015 x 1.4 = .021 k/ft

Span = 7.5'

$M = (.843 + .021k)\frac{7.5^2}{8} = 6.04$ ft-k

W6x15 $S_{xx} = 9.72$ in^3

$F_y = 50$ ksi $S_{yy} = 3.11$ in^3

$f_b = \frac{6.04 \times 12}{9.72} = 7.5$ ksi

Vert. axis bending from pipe expansion

$M_y = .843 \times .4 \times \frac{7.5^2}{8} = 2.4$ ft-k $\frac{2.4 \times 12}{3.11} = 9.3$ ksi

$\frac{9.3 + 7.5}{50 \times .66} = .51 < 1.0$ OK

End Pipe Supported Beams W6x15

EQ Seismic → M_{max} at end = 8.0 ft-k

W6x15 OK by inspection

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. EC of 14

Subject T4 Elevator Pit Job No. 10864 09002

Truss Framing

End Vertical Brace WL 4x4

EQ Seis 3 Mem 10 P = 3.9k Max 7.1 ft-k

OK by Inspection

End Top Horiz Diag. WT 4x6.5 Fy = 50 ksi A = 1.92 in² r = .843

EQ Seis 3 Mem 131 P = 3.8K

$f_a = \frac{3.8}{1.92} = 2.0$ ksi

$l = 9.6$ ft $\frac{kl}{r} = \frac{9.6 \times 12}{.843} = 136.7$

OK By Inspection

End Bot Horiz Diag. WT 4x6.5 Fy = 50 ksi A = 1.92 in² r = .843"

EQ Seis 3 Mem 100 P = 3.6k < 3.8k at Top Horiz Diag

OK By Inspection

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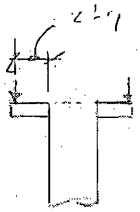
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E7 of 14

Subject T4 Elevated Deck Job No. 1086409.002

Truss Framing

HSS cantilevering from column



members 900, 901, 902, 903

Mem 901 seism 1 $V_y = 17.19\,k$ $V_z = 8.2\,k$

901 seis 3 $V_x = 8.1\,k$ $V_y = 20.9\,k$

mem 901 seis 1 controlling $M_z = 17.2 \times 2.75 = 47.3\,ft\,k$

$M_y = 8.2 \times 2.75 = 22.6\,ft\,k$

Torsion $M_x = 8.2 \times \frac{9.25}{12} = 6.37\,ft\,k$

HSS 12 x 6 x 3/8 weak axis bending 12" side non compact

$F_y = 46\,ksi$ $D/t = \frac{11\frac{1}{4}}{.375} = 30$ limiting non compact $1.4\sqrt{E/F_y}$

$Z_z = 47.7\,in^3$ $S_z = 38.1$ $J = 190\,in^4$ $1.4\sqrt{\frac{29 \times 10^3}{46}} = 35.2$

$Z_y = 29.4\,in^3$ $S_y = 25.7$

$M_{nz} = 46 \times 47.7 = 2194\,in\text{-}k$

$M_{py} = 46 \times 29.4 = 1352\,in\text{-}k$

$M_{ny} = 1352 - (1352 - 46 \times 25.7)\left(3.57 \times 10\sqrt{\frac{46}{29 \times 10^3}} - 4\right) = 1307.3$

$\frac{M_z}{M_{z\,allow}} = \frac{47.3 \times 12}{2194/1.67} = .4$ $\frac{M_y}{M_{y\,allow}} = \frac{22.6 \times 12}{1307/1.67} = .34$

$h_y = 12 - 3 \times .375 = 10.9"$ $h_z = 6 - 3 \times .375 = 4.9"$

$V_{ny} = .6 \times 46 \times 10.9 \times .375 \times 2 = 225.6\,k$ $V_z = .6 \times 46 \times 4.9 \times .375 \times 2 = 101.4\,k$

$\frac{V_y}{V_{y\,allow}} = \frac{17.2}{225.6/1.67} = .13$ $V_z = \frac{8.2}{101.4/1.67} = .14$

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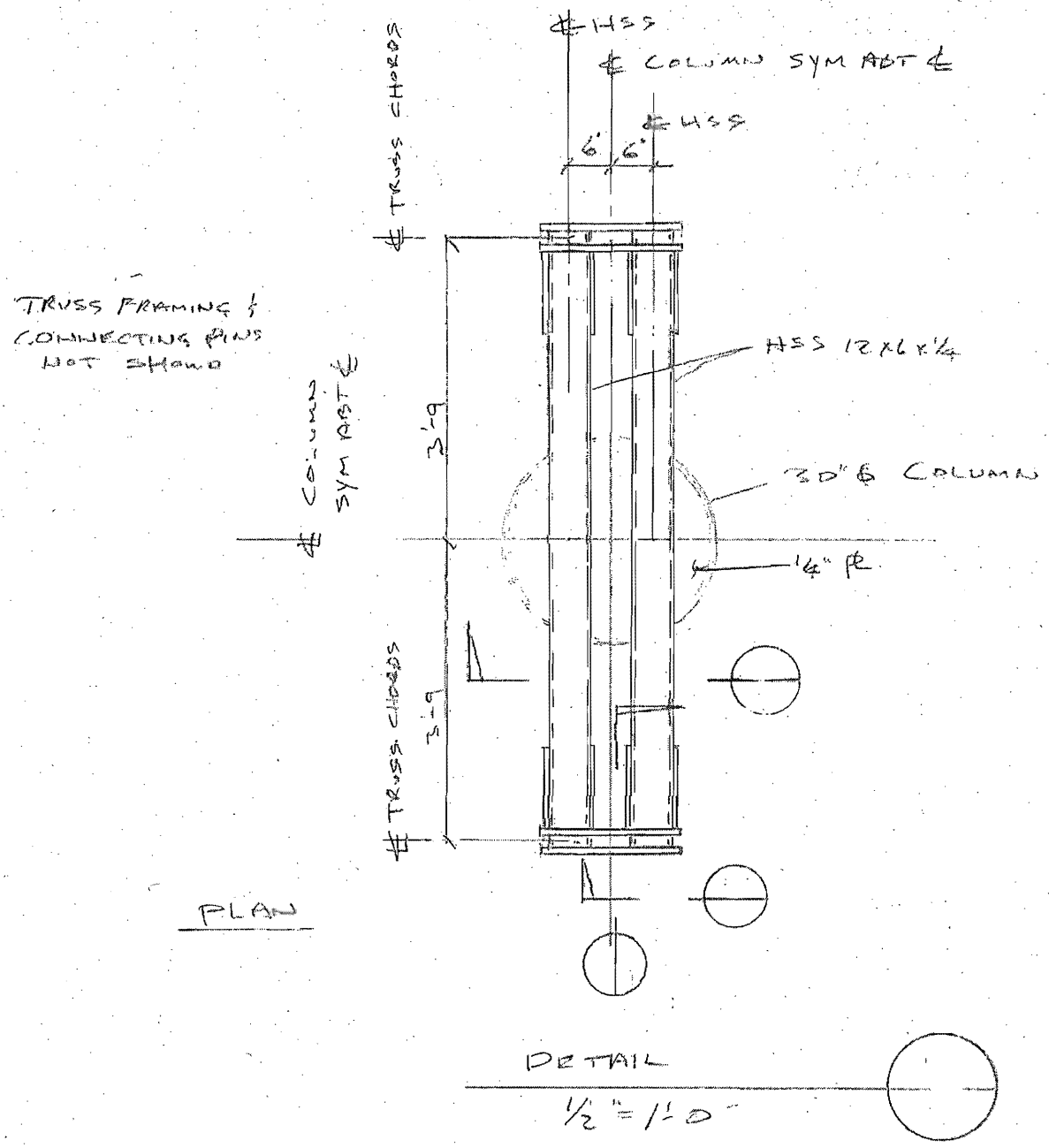
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E8 of 14

Subject T4 Elevated Rack Job No. 1036409.002



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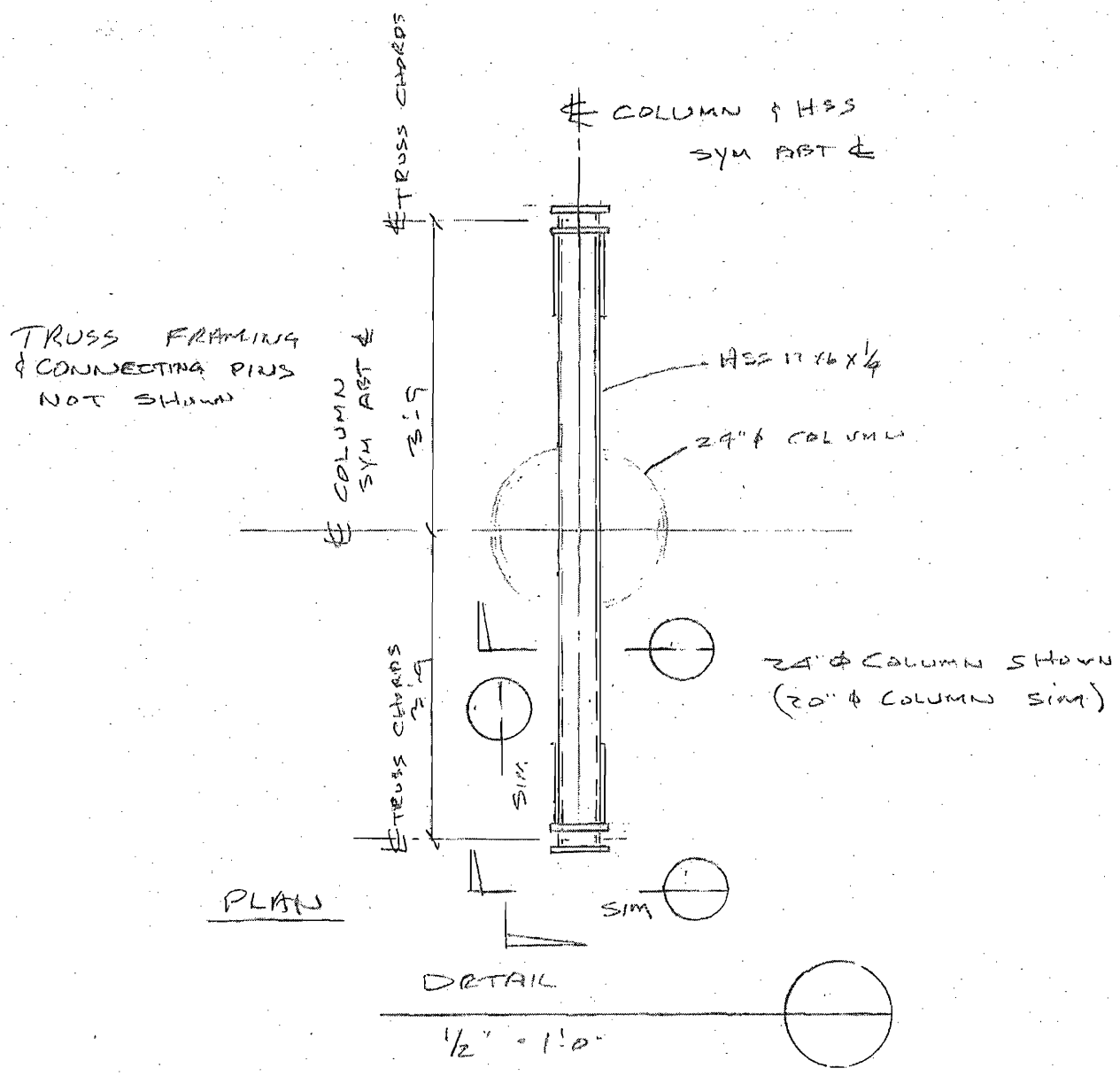
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E9 of 14

Subject T4 Elevated Rack Job No. 1086409.002



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By L. Lamb Date 9/09 Client Port of Portland Sheet No. E10 of 14

Subject 74 Elevated Rack Job No. 1086409002

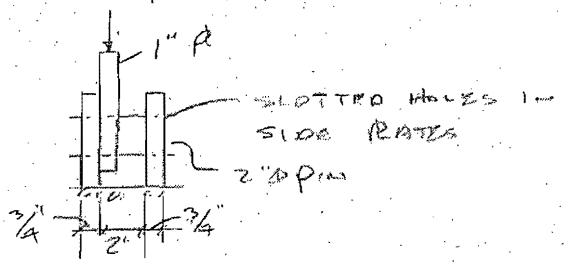
Truss Framing

Connecting Pin

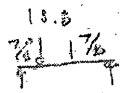
Try 2" ϕ pin

$F_p = .90 \times 50 = 45$ ksi

$P = 18.8$ k



Max load on side PL



$P = \frac{18.8 \times 1.875}{2.75} = 12.8$ k

$A_{req'd} = \frac{12.8}{45} = .28$ IN^2 Bearing width w/ 3/4 PL $= \frac{.28}{.75} = .37$" min.

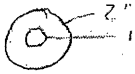
ck shear in pin

$A = \pi 1^2 - \pi .34^2 = 2.77$ IN^2

$f_v = \frac{4}{3} \times \frac{18.8}{2.77} = 9.04$ ksi $< .4 \times 50$ OK

ck pin bending w/ center PL centered between side PLs

$M = \frac{18.8 \times 2.75}{4} = 12.93$ IN-K



$I = \frac{\pi 1^4}{4} - \frac{\pi .37^4}{4} = .775$ IN^4 $f_b = \frac{12.93 \times 1}{.775} = 16.68$ ksi OK

Machine flat surface on pin to achieve req'd bearing

$\tan^{-1} \frac{.50}{1.0} = 26°$

$1 \times \cos 26° = .89$"

52°

1 pt machined flat

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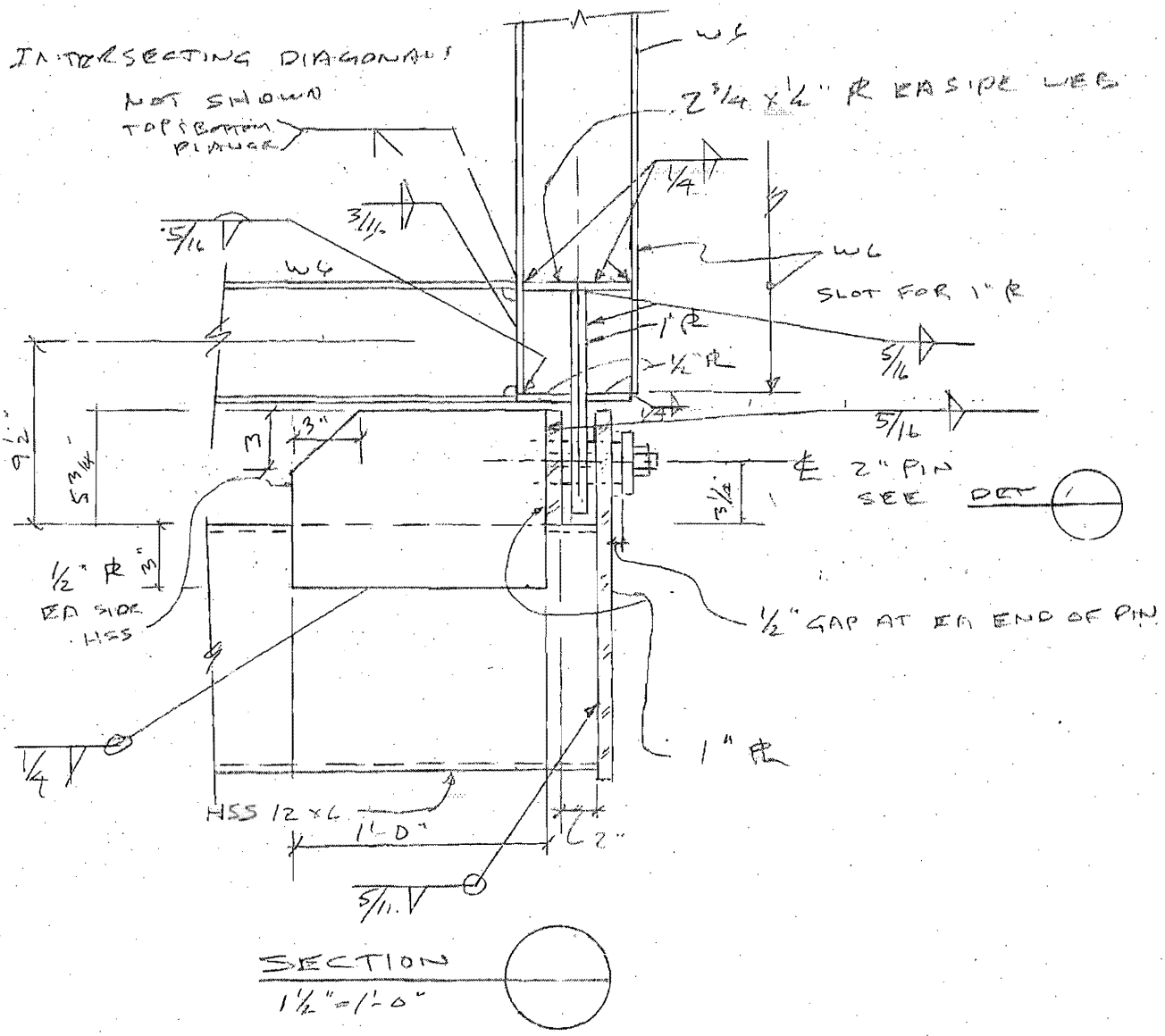
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E11 of 14

Subject T4 Elevated Rack Job No. L086409002



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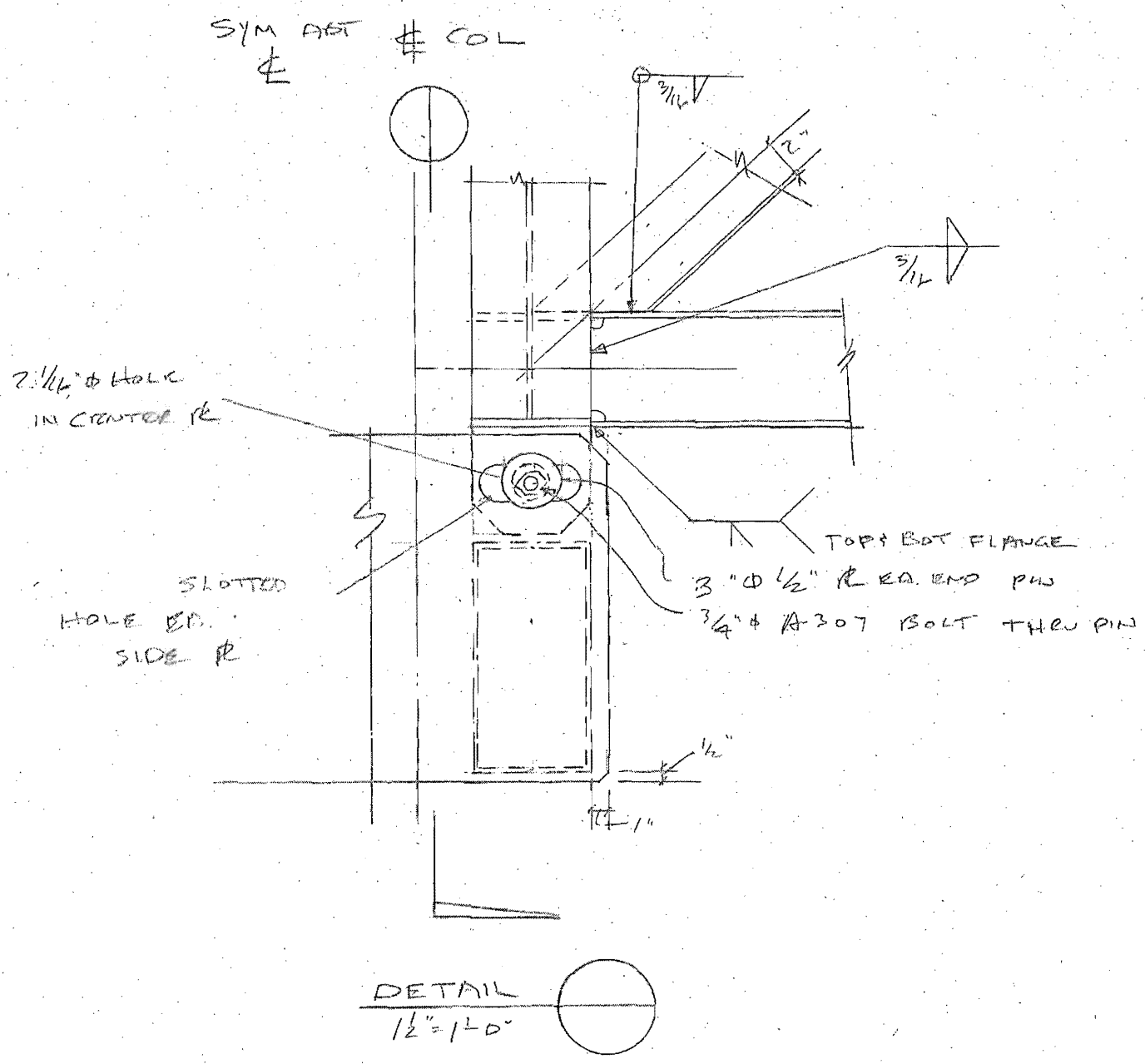
By L. Lewis Date 9/09 Client Port of Portland Sheet No. R-12 of 14

Subject T4 Elevated Rack Job No. 108.4.09002



DETAIL
1 1/2" = 1'-0"

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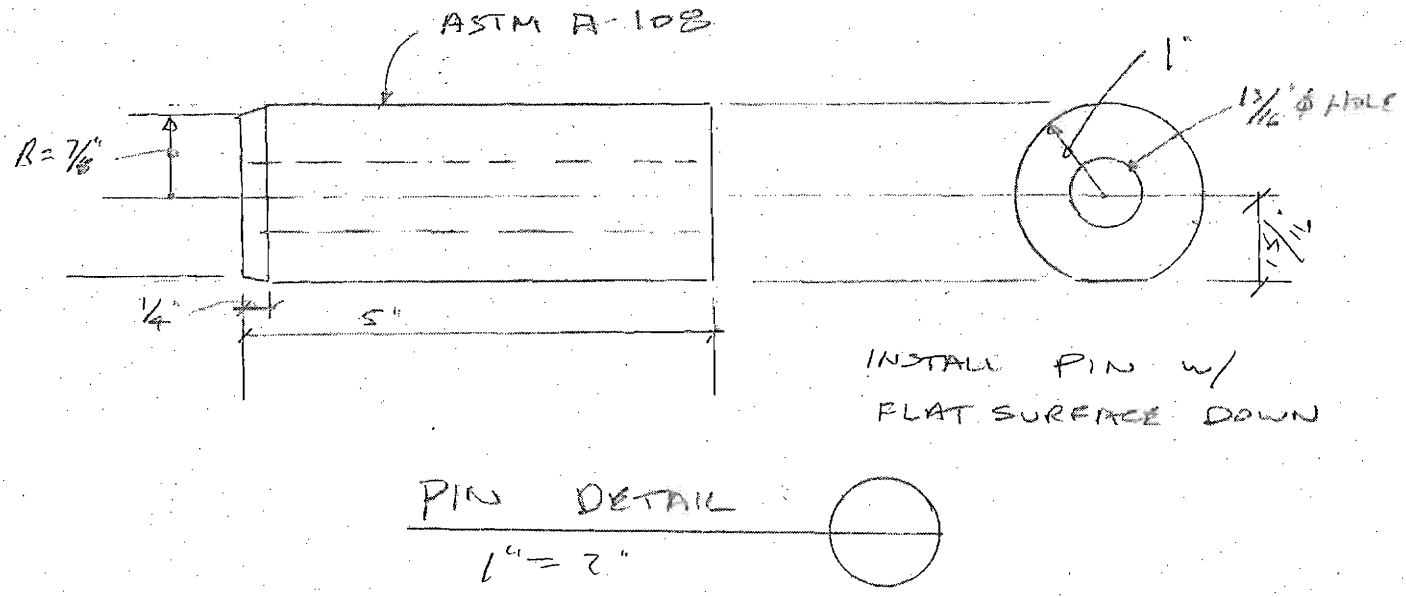
By L. Lewis Date 9/09 Client Port of Portland Sheet No. B13 of 14

Subject T4 Elevated Rock Job No. 1086409002



PIN DETAIL

1" = 2"

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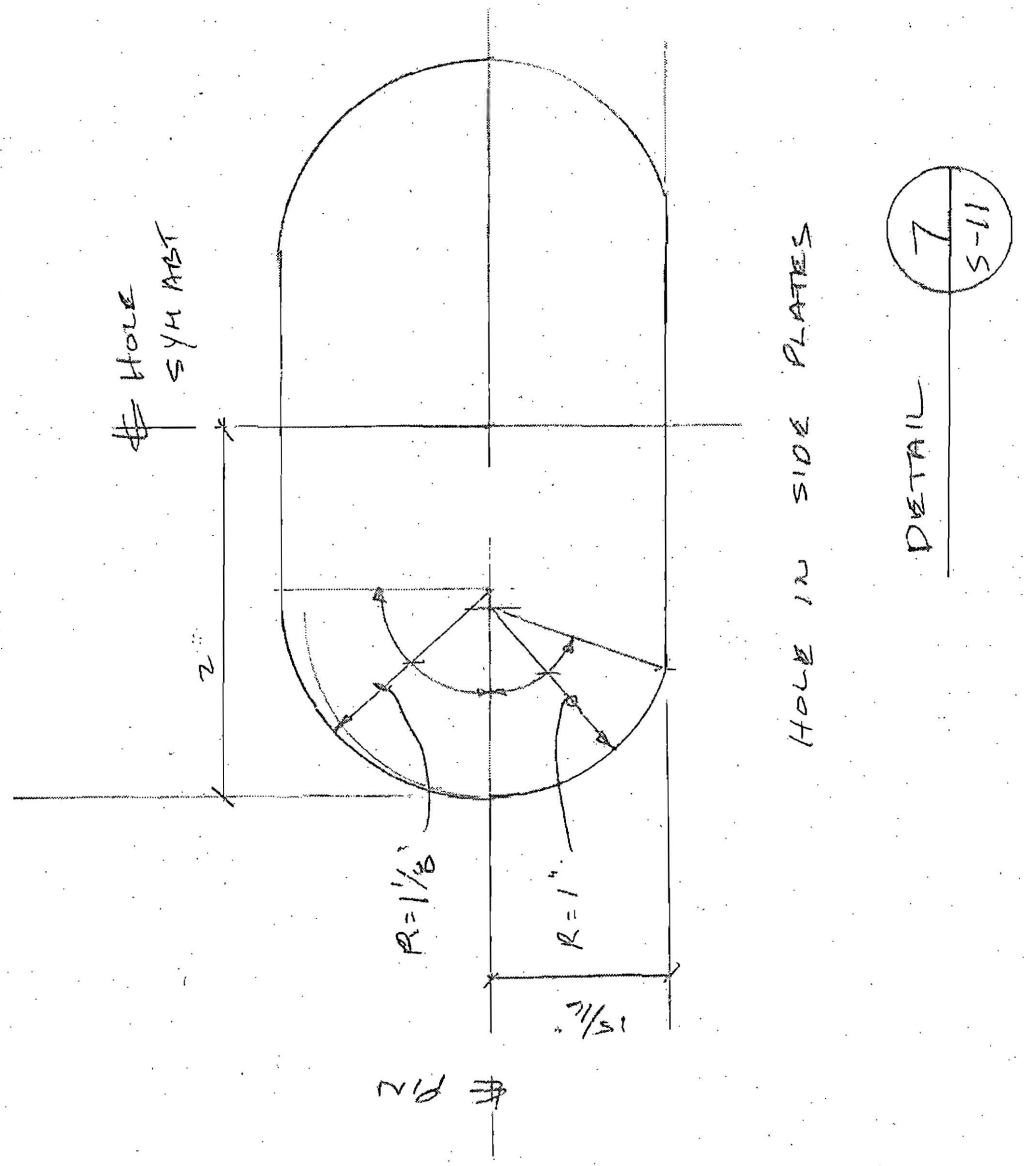
By L. Lewis Date 7/09 Client Port of Portland Sheet No. E14 of 14

Subject T4 Elevated Ramp Job No. 2096409007



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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F1 of 11

Subject T4 Elevated Ruch Job No. 1096409.00

F. Column and Column Base Design

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E7 of 17

Subject T4 Elevated Rack Job No. 1086409002

Col	SIZE	AXIAL** K	SEISMIC * SHEAR** K	MOMENT** FT-K	
A	24	38.2	8.2	217.6	
B	30	63.9	13.9	368.8	
C	24	31.4	6.6	175.7	COMBINED FTG
D	20	19.9	4.1	107.7	
E	30	52.8	11.3	300.8	
F	30	74.7	16.4	435.2	
G	30	63.9	13.9	368.8	
H	24	31.4	6.6	175.7	COMBINED FTG
J	20	17.9	3.6	95.2	
K	20	17.9	3.6	95.2	COMBINED FTG
L	24	38.0	8.2	216.5	
M	30	68.3	14.9	396.0	
N	30	70.3	15.4	408.0	

* Shear & Moment are from Allowable Stress Design Analysis (1.0D + 0.7E)

** Column Reactions 23'-0" below bottom of rack

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F3 of 11

Subject T4 Blowhole Park Job No. 10364.09.002

Column	Lift	Outrigger	Trib. Span	.885 Truss W.	Total axial	.205 shear	.544 moment
A	24	2.2	.6	40.0	35.4	38.2	8.2	217.6
B	30	2.8	1.1	67.8	60.0	63.9	13.9	368.8
C	24	2.2	.6	32.3	28.6	31.4	6.6	175.7
D	20	1.8	.6	19.8	17.5	19.9	4.1	107.7
E	30	2.8	1.1	55.3	48.9	52.8	11.3	300.8
F	30	2.8	1.1	80	70.8	74.7	16.4	435.2
G	30	2.8	1.1	67.8	60.0	63.9	13.9	368.8
H	24	2.2	.6	32.3	28.6	31.4	6.6	175.7
J	20	1.8	.6	17.5	15.5	17.9	3.6	95.2
K	20	1.8	.6	17.5	15.5	17.9	3.6	95.2
L	24	2.2	.6	39.8	35.2	38.0	8.2	216.5
M	30	2.8	1.1	72.8	64.4	68.3	14.9	396.0
N	30	2.8	1.1	75.0	66.4	70.3	15.4	408.0

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F4 of 11

Subject T4 Elevated Rack Design Job No. 1086409002

Column Connection Design

30" ϕ Column

Max. Reactions $M = 435.2$ ft-k
$V = 16.4$ k
$P = 74.7$ k

34" ϕ BOLT CIRCLE Properties 34" ϕ x 1" Circle

$f_a = 74.7/103.7 = .72$ ksi $A = 103.7$ in²
$S = 830.9$ in³

$f_b = 435.2 \times 12/830.9 = 6.28$ ksi

Compression $= 6.28 + .72 = 7.00$ k/in²

Tension $= 6.28 - .72 = 5.56$ k/in²

USE 10 - BOLTS $T_{bolt} = \frac{\pi 34}{10} \times 5.56 = 59.4$ k/bolt

USE 1 3/4 ϕ A193 B7 THREADED ROD $T_{allow} = .6888^2 \pi \times 12 < \frac{x.75}{2} = 69.7$k

> 59.4 ok

Base PL

$M = 59.4 \times 2 = 118.8$ in-k

Assume 6" eff. width $M = 118.8/6 = 19.8$ in-k/in

USE 1 3/4 A572 GRADE 42 PL $Z = \frac{1.75^2}{4} = .766$ $S = \frac{1.75^2}{6} = .510$

$M_p = M_n = F_y Z = .766 \times 42 = 32.2$ in-k $< 1.6 \times .510 \times 42$

$M_{allow} = 32.2/1.67 = 19.3$ in-k $\cong 19.8$ in-k OK

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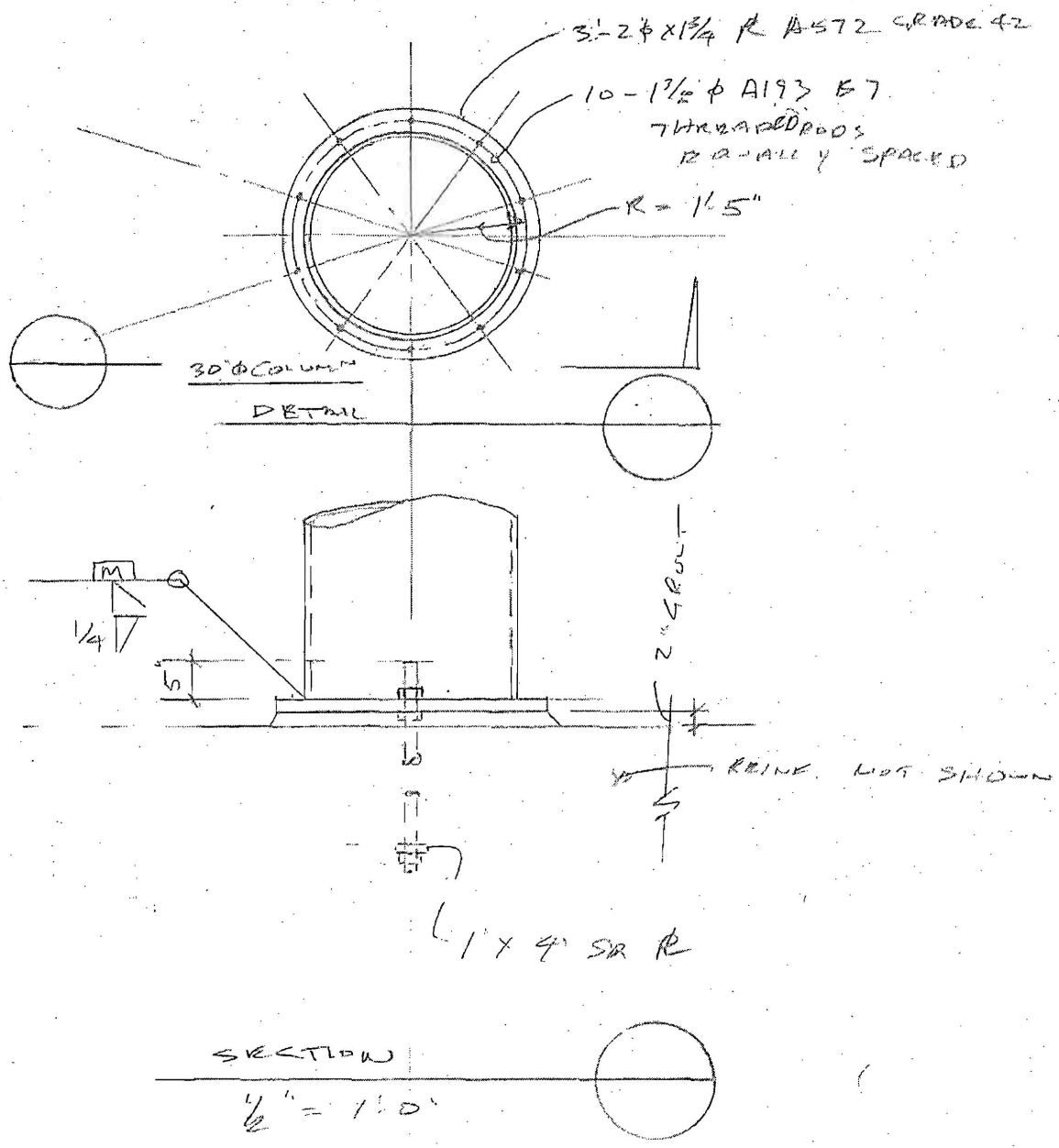
By L. Lewis Date 9/09 Client Port of Portland Sheet No. F5 of 11

Subject 7-7 Elevated Deck Job No. 1086 1 09002



SECTION
1/2" = 1'-0"

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F6 of 11

Subject T4 Elevated Rack Job No. 1086909002

Column Connection Design cont'd

24" ϕ Column

Max Reaction M = 217.6 ft-k
V = 8.2
P = 38.2

28" ϕ BOLT CIRCLE Propose 28" ϕ x 1" cir'l
A = 84.8 in²
S = 552.9 in³

$f_a = 38.2/84.8 = .45$ ksi

$f_b = 217.6 \times 12/552.9 = 4.72$ KSI

Compression = 4.72 + .45 = 5.17 K/in

Tension = 4.72 - .45 = 4.27 K/in

Use 8 - bolts $T = \frac{28\pi}{8} \times 4.27 = 46.9$ K

Use 1½ϕ Threaded Rod A193 B7

$T_{allow} = \frac{.625^2 \pi 125 \times .75}{2} = 57.5 > 46.9$ OK

Base PL

M = 46.9 x 2 = 93.8 in-k
Assume 6" effective width for bending $\frac{93.8}{6} = 15.6$ in-k

Use 1¾" PL A572 GRADE 42 $M_{allow} = 19.3$ in-k OK

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F7 of 11

Subject T4 Elevator Rail Job No. 1086409002

Column Connection Design cont'd

2.0" Column

Max. Reactions $M = 107.7$ ft-k
$V = 4.1$ k
$P = 19.9$ k

24" bolt Circle Properties 24" ø x 1" Circle
$A = 72.3$ in²
$S = 398.9$

$f_a = \frac{19.9}{72.3} = .28$ ksi

$f_b = 107.7$ ft-k / $398.9 = 3.24$ ksi

Compression $= 3.24 + .28 = 3.52$ k
Tension $= 3.24 - .28 = 2.96$ k

use 8-bolts $T_{bolt} = \frac{\pi 24}{8} \times 2.96 = 27.9$ k-k/bolt

use 1"ø A193 B7 THREADED ROD

$T_{allow} = .5^2\pi \times 125 \times \frac{.75}{2} = 36.8$ k > 27.9 OK

Base PL

$M = 27.9 \times 2 = 55.8$ in-k

Assume 6" effective width for bending $\frac{55.8}{6} = 9.3$ in-k/in

use 1¼" PL A572 GRADE 42 PLATE $Z = \frac{1.25^2}{4} = .39$

$M_p = M_n = F_y Z = 42 \times .39 = 16.4$ in-k

$M_{allow} = \frac{16.4}{1.67} = 9.8$ in-k > 9.3 in-k OK

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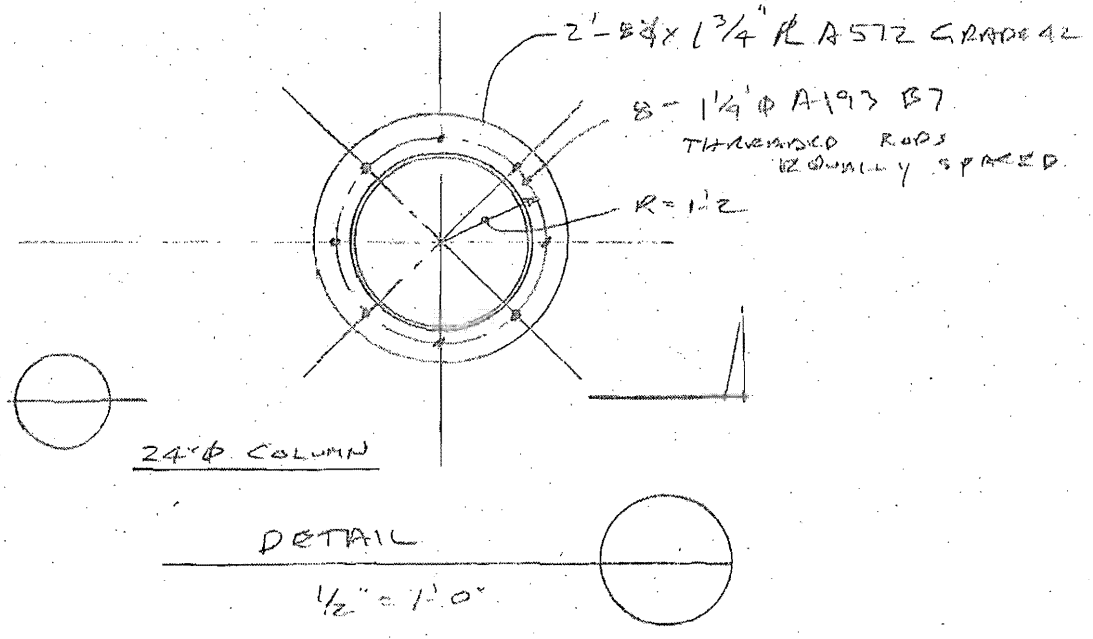
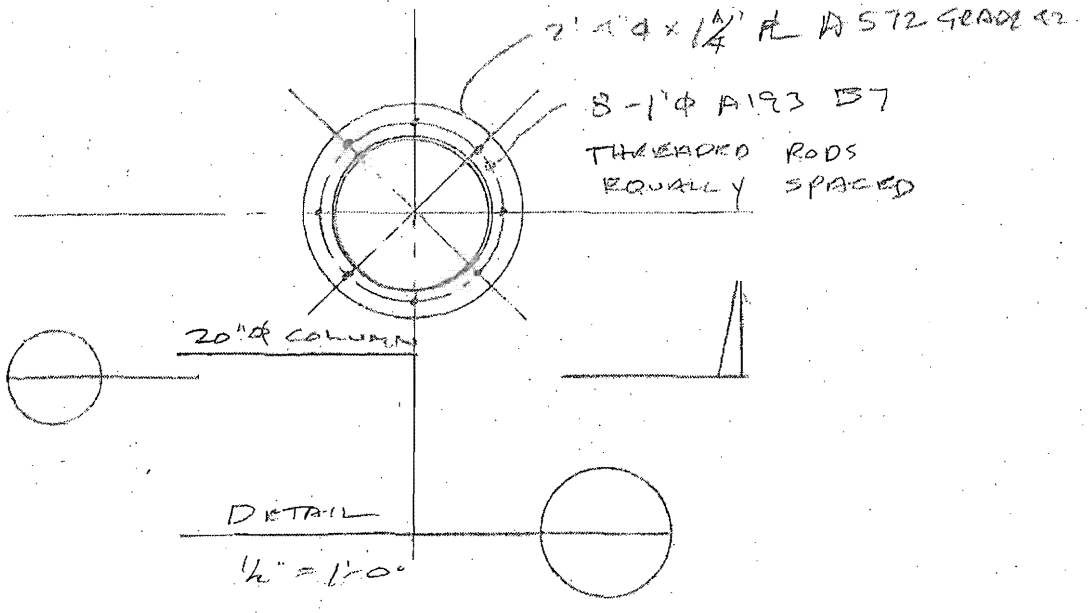
By L. Lewis Date 9/09 Client Port of Portland Sheet No. F8 of 11

Subject T4 Elevated Ramp Job No. 1086409002





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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F9 of 11

Subject T9 Elevated Rack Job No. 1086409002

Column Design A500 Grade B $F_y = 42$ ksi

Limiting $D/t = .44 \times \frac{29 \times 10^3}{42} = 310.7$

30" ϕ x 3/8 $D/t = 80$ $Z = \frac{d^3}{6} - \frac{d_i^3}{6}$

$Z = \frac{30^3}{6} - \frac{29.25^3}{6} = 329.1$ (F8-1) $M_n = F_y Z = 42 \times 329.1 = 13822$ in-k

(F8-2)
$M_n = \left(\frac{.021 \times 29 \times 10^3}{80} + 42\right) 255.3 = 12,666.07$ in-k $S = 255.3$ in³

$M_{allow} = \frac{12,666}{12} \times \frac{1}{1.67} = 632.03$ ft-k

Axial Compression (E7-19) $Q_n = \frac{.038 \times 29 \times 10^3}{42(80)} + 2/3 = .994 = 1.0$

$\frac{Kl}{r} = \frac{2.23 \times 12}{10.48} = 52.7$ $A = 34.9$ in²

(E3-4) $F_e = \frac{\pi^2 29000}{(52.7)^2} = 102.95$ $F_{cr} = \left(.658 \frac{42}{102.95}\right) 42 = 35.4$ ksi

$F_{allow} = \frac{35.4 \times 34.9}{1.67} = 739$ k $M = 435.2$ ft-k
$P = 74.7$ k

$\frac{74.7}{739} + \frac{435.2}{632.03} < 1.0$ ok

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By L. Lewis Date 8/09 Client Port of Portland Sheet No. F10 of 11

Subject T4 Elevated Rack Job No. 1081409002

Column Design cont'd

24" ϕ x .375"

$M = 217.6$ ft-k
$P = 38.2$ k

$D/t = 24/.375 = 64$

$Z = \frac{24^3}{6} - \frac{23.25^3}{6} = 209.32$

$S = 44.9$
$A = 27.8$
$r = 8.35$

$M_n = 42 \times 209.32 = 8791$ in-k

$M_n = \left(\frac{.021 \times 29 \times 10^3}{64} + 42\right) 44.9 = 8340$ in-k

$M_{allow} = \frac{8340}{12} \times \frac{1}{1.67} = 411.2$ ft-k

$\frac{Kl}{r} = \frac{2 \times 23 \times 12}{8.35} = 66.1$

$F_e = \frac{\pi^2 29000}{(66.1)^2} = 65.44$

$F_{cr} = \left(.658 \frac{42}{65.4}\right) 42 = 31.89$ ksi

$P_{allow} = \frac{31.89 \times 27.8}{1.67} = 530.9$ k

$\frac{217.6}{411.2} + \frac{38.2}{530.9} < 1$ OK

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By L. Lewis Date 2/09 Client Port of Portland Sheet No. F11 of 11

Subject T4 Elevated Ramp Job No. 1086409002

Column Design cont'd

20" ϕ x .375"

$D/t = 20/.375 = 53.3$

M = 107.7 ft-k
P = 19.9 k

A = 23.1
S = 111.3
r = 6.94

$Z = \frac{20^3}{6} - \frac{19.25^3}{6} = 144.4$

$M_n = 42 \times 144.4 = 6065$

$M_n = \left(\frac{.021 \times 29 \times 10^3}{53.3} + 42\right) 111.3 = 5946.3$

$M_{allow} = \frac{5946.3}{1.67 \times 12} = 296.7$ ft-k

$\frac{kl}{r} = \frac{2 \times 23 \times 12}{6.94} = 79.5$

$F_e = \frac{\pi^2 29000}{(79.5)^2} = 45.2$

$F_{cr} = \left(.658^{42/45.2}\right) 42 = 28.5$

$P_{allow} = \frac{28.5 \times 23.1}{1.67} = 394$ k

$\frac{107.7}{296.7} + \frac{19.9}{394} < 1.0$ ok

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By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject HIGH RACK Job No. _____

Col	SIZE	AXIAL** K	SEISMIC * SHEAR** K	MOMENT** FT-K	
A	24	38.2	8.2	217.6	
B	30	63.9	13.9	368.8	
C	24	31.4	6.6	175.7	COMBINED FTG
D	20	19.9	4.1	107.7	
E	30	52.8	11.3	300.8	
F	30	74.7	16.4	435.2	
G	30	63.9	13.9	368.8	
H	24	31.4	6.6	175.7	COMBINED FTG
J	20	17.9	3.6	95.2	
K	20	17.9	3.6	95.2	COMBINED FTG
L	24	38.0	8.2	216.5	
M	30	68.3	14.9	396.0	
N	30	70.3	15.4	408.0	

Rev. 8/08

* Shear & Moment are from Allowable Stress Design Analysis (1.0D + 0.7E)

** COLUMN REACTIONS 23'-0" BELOW BOTTOM OF RACK

Title Block Line 1
You can changes this area using the "Settings" menu item and then using the "Printing & Title Block" selection.
Title Block Line 6

Title :
Dsgnr:
Project Desc.:

Project Notes :

Job #

Printed: 18 SEP 2009, 12:58PM

General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-14.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing A

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	: 1
Min. Overturning Safety Factor	=	1.50	: 1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

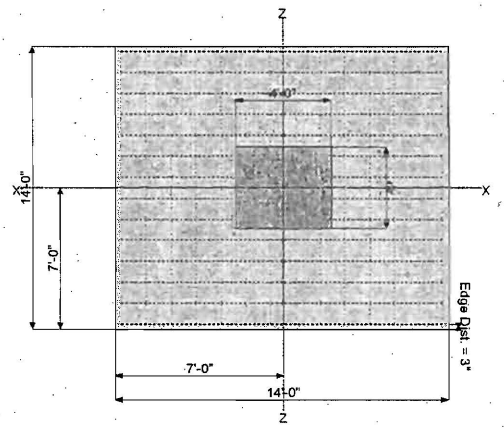
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

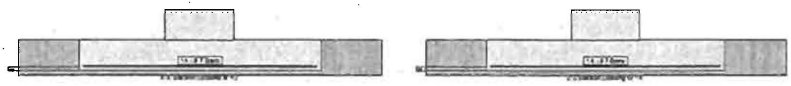
Dimensions

Width along X-X Axis	=	14.0	ft
Length along Z-Z Axi	=	14.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height	=	24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7



Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	38.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						310.0		k-ft
V-x	=						13.0		k
V-z	=								k

Title Block Line 1
You can changes this area using the "Settings" menu item and then using the "Printing & Title Block" selection.
Title Block Line 6

Title :
Dsgnr:
Project Desc.:

Project Notes :

Job #

Printed: 18 SEP 2009, 12:58PM

General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-f4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. #: KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing A

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.5028	Soil Bearing	1.257 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.311	Overturning - Z-Z	258.57 k-ft	597.49 k-ft	0.9D+E/1.4
PASS	3.662	Sliding - X-X	9.286 k	34.007 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.3123	Z Flexure (+X)	17.708 k-ft	56.70 k-ft	+0.60D+E+1.60H
PASS	0.1493	Z Flexure (-X)	8.467 k-ft	56.70 k-ft	+1.40D
PASS	0.1493	X Flexure (+Z)	8.467 k-ft	56.70 k-ft	+1.40D
PASS	0.1493	X Flexure (-Z)	8.467 k-ft	56.70 k-ft	+1.40D
PASS	0.07934	1-way Shear (+X)	8.531 psi	107.52 psi	+1.40D
PASS	0.07934	1-way Shear (-X)	8.531 psi	107.52 psi	+1.40D
PASS	0.07934	1-way Shear (+Z)	8.531 psi	107.52 psi	+1.40D
PASS	0.07934	1-way Shear (-Z)	8.531 psi	107.52 psi	+1.40D
PASS	0.08833	2-way Punching	18.994 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.4839	0.4839	n/a	n/a	0.194
X-X, +D+L+H	2.50	n/a	0.0	0.4839	0.4839	n/a	n/a	0.194
X-X, +D+Lr+H	2.50	n/a	0.0	0.4839	0.4839	n/a	n/a	0.194
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.5245	0.5245	n/a	n/a	0.210
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.5144	0.5144	n/a	n/a	0.206
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.5245	0.5245	n/a	n/a	0.210
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2497	0.2497	n/a	n/a	0.100
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.4839	0.4839	0.194
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.4839	0.4839	0.194
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.4839	0.4839	0.194
Z-Z, +1.084D+0.70E+H	2.50	29.578	n/a	n/a	n/a	0.0	1.072	0.429
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	22.622	n/a	n/a	n/a	0.1043	0.9244	0.370
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	22.183	n/a	n/a	n/a	0.1145	0.9345	0.374
Z-Z, +0.5160D+0.70E+H	2.50	62.136	n/a	n/a	n/a	0.0	1.257	0.503

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	258.57 k-ft	597.49 k-ft	2.311	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	36.852 k	No Sliding	OK
X-X, 0.9D+E/1.4	9.286 k	34.007 k	3.662	OK
Z-Z, D	0.0 k	36.852 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	34.007 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	8.467 k-ft	+Z	Bottom	0.1195 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
X-X, +1.40D	8.467 k-ft	-Z	Bottom	0.1195 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	7.258 k-ft	+Z	Bottom	0.1024 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	7.258 k-ft	-Z	Bottom	0.1024 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
X-X, +0.60D+E+1.60H	3.629 k-ft	+Z	Bottom	0.0511 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
X-X, +0.60D+E+1.60H	3.629 k-ft	-Z	Bottom	0.0511 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK

Title Block Line 1
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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing A

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	8.467 k-ft	-X	Bottom	0.1195 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
Z-Z, +1.40D	8.467 k-ft	+X	Bottom	0.1195 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.3063 k-ft	-X	Bottom	0.0043 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	15.155 k-ft	+X	Bottom	0.2145 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK
Z-Z, +0.60D+E+1.60H	17.708 k-ft	+X	Bottom	0.2509 in2/ft	Calc'd Bending	0.6000 in2/ft	56.70 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	8.531 psi	8.531 psi	8.531 psi	8.531 psi	8.531 psi	107.52 psi	0.07934	OK
+1.20D+0.50L+0.20S+E	7.312 psi	7.312 psi	7.312 psi	7.312 psi	7.312 psi	107.52 psi	0.06801	OK
+0.60D+E+1.60H	3.654 psi	3.654 psi	3.656 psi	3.656 psi	3.656 psi	107.52 psi	0.0340	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	18.994 psi	215.03 psi	0.08833	OK
+1.20D+0.50L+0.20S+E	16.445 psi	215.03 psi	0.07648	OK
+0.60D+E+1.60H	9.811 psi	215.03 psi	0.04563	OK

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Printed: 18 SEP 2009, 1:00PM

General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-14.ec6
ENERCALC, INC. 1983-2008, Ver. 6.0.221

Lic. # : KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing B

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

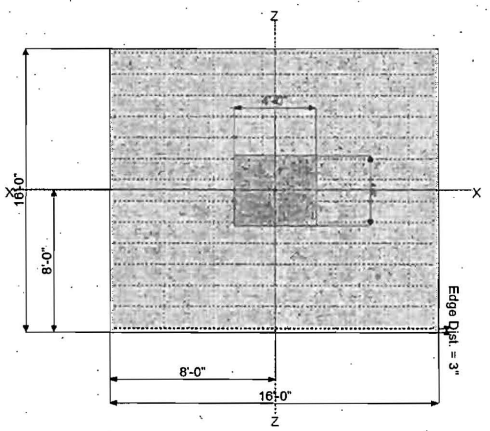
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	16.0	ft
Length along Z-Z Axi	=	16.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height		24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	64.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						530.0		k-ft
V-x	=						20.0		k
V-z	=								k

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General Footing Design

File: C:\Documents and Settings\Tiengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing B

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.580	Soil Bearing	1.450 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.284	Overturning - Z-Z	435.71 k-ft	995.33 k-ft	0.9D+E/1.4
PASS	3.285	Sliding - X-X	14.286 k	46.925 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.5590	Z Flexure (+X)	27.735 k-ft	49.613 k-ft	+0.60D+E+1.60H
PASS	0.2743	Z Flexure (-X)	13.608 k-ft	49.613 k-ft	+1.40D
PASS	0.2743	X Flexure (+Z)	13.608 k-ft	49.613 k-ft	+1.40D
PASS	0.2743	X Flexure (-Z)	13.608 k-ft	49.613 k-ft	+1.40D
PASS	0.1191	1-way Shear (+X)	12.80 psi	107.52 psi	+1.40D
PASS	0.1191	1-way Shear (-X)	12.80 psi	107.52 psi	+1.40D
PASS	0.1191	1-way Shear (+Z)	12.80 psi	107.52 psi	+1.40D
PASS	0.1191	1-way Shear (-Z)	12.80 psi	107.52 psi	+1.40D
PASS	0.1352	2-way Punching	29.064 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.540	0.540	n/a	n/a	0.216
X-X, +D+L+H	2.50	n/a	0.0	0.540	0.540	n/a	n/a	0.216
X-X, +D+Lr+H	2.50	n/a	0.0	0.540	0.540	n/a	n/a	0.216
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.5854	0.5854	n/a	n/a	0.234
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.5740	0.5740	n/a	n/a	0.230
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.5854	0.5854	n/a	n/a	0.234
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2786	0.2786	n/a	n/a	0.111
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.540	0.540	0.216
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.540	0.540	0.216
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.540	0.540	0.216
Z-Z, +1.084D+0.70E+H	2.50	34.194	n/a	n/a	n/a	0.0	1.204	0.482
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	26.152	n/a	n/a	n/a	0.1112	1.037	0.415
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	25.645	n/a	n/a	n/a	0.1225	1.048	0.419
Z-Z, +0.5160D+0.70E+H	2.50	71.833	n/a	n/a	n/a	0.0	1.450	0.580

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	435.71 k-ft	995.33 k-ft	2.284	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	51.072 k	No Sliding	OK
X-X, 0.9D+E/1.4	14.286 k	46.925 k	3.285	OK
Z-Z, D	0.0 k	51.072 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	46.925 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	13.608 k-ft	+Z	Bottom	0.1925 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.40D	13.608 k-ft	-Z	Bottom	0.1925 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	11.664 k-ft	+Z	Bottom	0.1649 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	11.664 k-ft	-Z	Bottom	0.1649 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	5.832 k-ft	+Z	Bottom	0.0823 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	5.832 k-ft	-Z	Bottom	0.0823 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing B

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	13.608 k-ft	-X	Bottom	0.1925 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.40D	13.608 k-ft	+X	Bottom	0.1925 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.5384 k-ft	-X	Bottom	0.0076 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	24.339 k-ft	+X	Bottom	0.3457 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	27.735 k-ft	+X	Bottom	0.3944 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	12.80 psi	12.80 psi	12.80 psi	12.80 psi	12.80 psi	107.52 psi	0.1191	OK
+1.20D+0.50L+0.20S+E	10.971 psi	10.971 psi	10.971 psi	10.971 psi	10.971 psi	107.52 psi	0.1020	OK
+0.60D+E+1.60H	5.485 psi	5.485 psi	5.486 psi	5.486 psi	5.486 psi	107.52 psi	0.05102	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	29.064 psi	215.03 psi	0.1352	OK
+1.20D+0.50L+0.20S+E	25.114 psi	215.03 psi	0.1168	OK
+0.60D+E+1.60H	14.309 psi	215.03 psi	0.06655	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing C/D

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

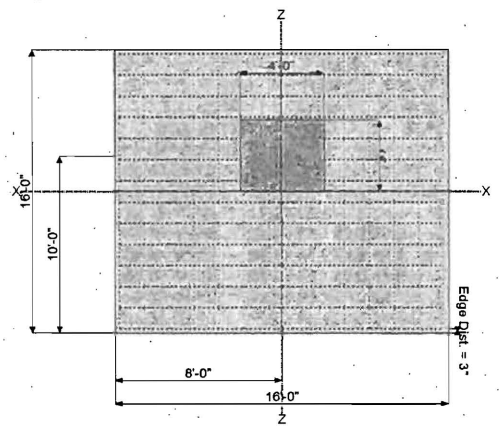
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	16.0	ft
Length along Z-Z Axi	=	16.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	24	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height	=	24.0	in
Rebar Centerline to Edge of Concrete.. at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	52.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						410.0		k-ft
V-x	=						16.0		k
V-z	=								k

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver. 6.0.221

Lic. #: KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing C/D

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.4056	Soil Bearing	1.014 ksf	2.50 ksf	+1.084D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.685	Overturning - Z-Z	338.57 k-ft	908.93 k-ft	0.9D+E/1.4
PASS	3.822	Sliding - X-X	11.429 k	43.685 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.4061	Z Flexure (+X)	20.149 k-ft	49.613 k-ft	+0.60D+E+1.60H
PASS	0.2505	Z Flexure (-X)	12.427 k-ft	49.613 k-ft	+1.40D
PASS	0.140	X Flexure (+Z)	6.943 k-ft	49.613 k-ft	+1.40D
PASS	0.3535	X Flexure (-Z)	17.539 k-ft	49.613 k-ft	+1.40D
PASS	0.1087	1-way Shear (+X)	11.689 psi	107.52 psi	+1.40D
PASS	0.1087	1-way Shear (-X)	11.689 psi	107.52 psi	+1.40D
PASS	0.07556	1-way Shear (+Z)	8.124 psi	107.52 psi	+1.40D
PASS	0.1278	1-way Shear (-Z)	13.737 psi	107.52 psi	+1.40D
PASS	0.1234	2-way Punching	26.541 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	9.886	0.3428	0.6434	n/a	n/a	0.257
X-X, +D+L+H	2.50	n/a	9.886	0.3428	0.6434	n/a	n/a	0.257
X-X, +D+Lr+H	2.50	n/a	9.886	0.3428	0.6434	n/a	n/a	0.257
X-X, +1.084D+0.70E+H	2.50	n/a	9.886	0.3716	0.6975	n/a	n/a	0.279
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	9.886	0.3644	0.6840	n/a	n/a	0.274
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	9.886	0.3716	0.6975	n/a	n/a	0.279
X-X, +0.5160D+0.70E+H	2.50	n/a	9.886	0.1769	0.3320	n/a	n/a	0.133
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.4931	0.4931	0.197
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.4931	0.4931	0.197
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.4931	0.4931	0.197
Z-Z, +1.084D+0.70E+H	2.50	29.096	n/a	n/a	n/a	0.05499	1.014	0.406
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	22.253	n/a	n/a	n/a	0.1645	0.8839	0.354
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	21.822	n/a	n/a	n/a	0.1749	0.8942	0.358
Z-Z, +0.5160D+0.70E+H	2.50	61.124	n/a	n/a	n/a	0.0	0.9225	0.369

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	905.92 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	815.33 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	338.57 k-ft	908.93 k-ft	2.685	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	47.472 k	No Sliding	OK
X-X, 0.9D+E/1.4	11.429 k	43.685 k	3.822	OK
Z-Z, D	0.0 k	47.472 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	43.685 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	6.943 k-ft	+Z	Bottom	0.0980 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.40D	17.539 k-ft	-Z	Bottom	0.2485 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	5.951 k-ft	+Z	Bottom	0.0839 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	15.033 k-ft	-Z	Bottom	0.2128 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	2.976 k-ft	+Z	Bottom	0.0419 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	7.517 k-ft	-Z	Bottom	0.1061 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

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General Footing Design

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ENERCALC, INC.:1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing C/D

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	12.427 k-ft	-X	Bottom	0.1757 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.40D	12.427 k-ft	+X	Bottom	0.1757 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	1.450 k-ft	-X	Bottom	0.0204 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	20.130 k-ft	+X	Bottom	0.2855 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	20.149 k-ft	+X	Bottom	0.2857 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	11.689 psi	11.689 psi	13.737 psi	8.124 psi	13.737 psi	107.52 psi	0.1278	OK
+1.20D+0.50L+0.20S+E	10.019 psi	10.019 psi	11.775 psi	6.963 psi	11.775 psi	107.52 psi	0.1095	OK
+0.60D+E+1.60H	5.007 psi	5.007 psi	5.887 psi	3.482 psi	5.887 psi	107.52 psi	0.05476	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	26.541 psi	215.03 psi	0.1234	OK
+1.20D+0.50L+0.20S+E	22.498 psi	215.03 psi	0.1046	OK
+0.60D+E+1.60H	12.358 psi	215.03 psi	0.05747	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing E

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

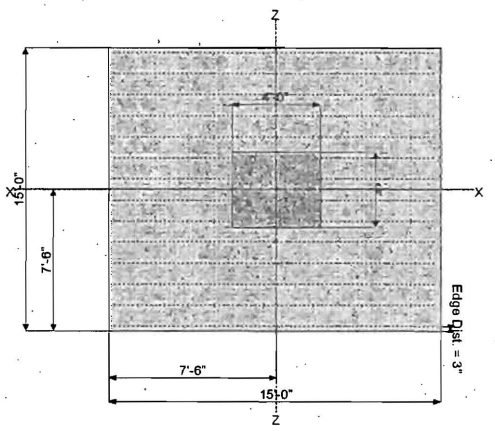
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	15.0	ft
Length along Z-Z Axi	=	15.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height		24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis			
Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	
Bars along Z-Z Axis			
Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	53.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						430.0		k-ft
V-x	=						16.0		k
V-z	=								k

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing E

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.5812	Soil Bearing	1.453 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.262	Overturning - Z-Z	352.86 k-ft	798.19 k-ft	0.9D+E/1.4
PASS	3.581	Sliding - X-X	11.429 k	40.928 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.4432	Z Flexure (+X)	23.453 k-ft	52.920 k-ft	+0.60D+E+1.60H
PASS	0.2102	Z Flexure (-X)	11.125 k-ft	52.920 k-ft	+1.40D
PASS	0.2102	X Flexure (+Z)	11.125 k-ft	52.920 k-ft	+1.40D
PASS	0.2102	X Flexure (-Z)	11.125 k-ft	52.920 k-ft	+1.40D
PASS	0.1032	1-way Shear (+X)	11.095 psi	107.52 psi	+1.40D
PASS	0.1032	1-way Shear (-X)	11.095 psi	107.52 psi	+1.40D
PASS	0.1032	1-way Shear (+Z)	11.095 psi	107.52 psi	+1.40D
PASS	0.1032	1-way Shear (-Z)	11.095 psi	107.52 psi	+1.40D
PASS	0.1130	2-way Punching	24.292 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.5256	0.5256	n/a	n/a	0.210
X-X, +D+L+H	2.50	n/a	0.0	0.5256	0.5256	n/a	n/a	0.210
X-X, +D+Lr+H	2.50	n/a	0.0	0.5256	0.5256	n/a	n/a	0.210
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.5697	0.5697	n/a	n/a	0.228
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.5587	0.5587	n/a	n/a	0.224
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.5697	0.5697	n/a	n/a	0.228
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2712	0.2712	n/a	n/a	0.109
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5256	0.5256	0.210
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5256	0.5256	0.210
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5256	0.5256	0.210
Z-Z, +1.084D+0.70E+H	2.50	32.372	n/a	n/a	n/a	0.0	1.178	0.471
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	24.759	n/a	n/a	n/a	0.1037	1.014	0.406
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	24.279	n/a	n/a	n/a	0.1148	1.025	0.410
Z-Z, +0.5160D+0.70E+H	2.50	68.007	n/a	n/a	n/a	0.0	1.453	0.581

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	352.86 k-ft	798.19 k-ft	2.262	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	44.475 k	No Sliding	OK
X-X, 0.9D+E/1.4	11.429 k	40.928 k	3.581	OK
Z-Z, D	0.0 k	44.475 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	40.928 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	11.125 k-ft	+Z	Bottom	0.1572 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.40D	11.125 k-ft	-Z	Bottom	0.1572 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	9.536 k-ft	+Z	Bottom	0.1347 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	9.536 k-ft	-Z	Bottom	0.1347 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	4.768 k-ft	+Z	Bottom	0.0672 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	4.768 k-ft	-Z	Bottom	0.0672 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

Title Block Line 1
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General Footing Design

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ENERCALC, INC. 1983-2008, Ver. 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing E

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	11.125 k-ft	-X	Bottom	0.1572 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.40D	11.125 k-ft	+X	Bottom	0.1572 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.3612 k-ft	-X	Bottom	0.0051 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	20.120 k-ft	+X	Bottom	0.2853 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	23.453 k-ft	+X	Bottom	0.3330 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	11.095 psi	11.095 psi	11.095 psi	11.095 psi	11.095 psi	107.52 psi	0.1032	OK
+1.20D+0.50L+0.20S+E	9.510 psi	9.510 psi	9.510 psi	9.510 psi	9.510 psi	107.52 psi	0.08845	OK
+0.60D+E+1.60H	4.755 psi	4.755 psi	4.755 psi	4.755 psi	4.755 psi	107.52 psi	0.04423	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	24.292 psi	215.03psi	0.1130	OK
+1.20D+0.50L+0.20S+E	21.040 psi	215.03psi	0.09784	OK
+0.60D+E+1.60H	12.241 psi	215.03psi	0.05692	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing F

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	16.0	ft
Length along Z-Z Axi	=	16.0	ft
Footing Thicknes	=	24.0	in

Load location offset from footing center...

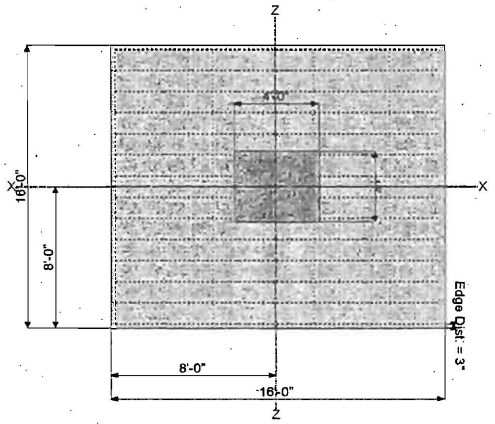
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in

Pedestal dimensions...

px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height	=	24.0	in

Rebar Centerline to Edge of Concrete..

at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis

Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	

Bars along Z-Z Axis

Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	75.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						620.0		k-ft
V-x	=						24.0		k
V-z	=								k

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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing F

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.840	Soil Bearing	2.10 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.101	Overturning - Z-Z	511.43 k-ft	1,074.53 k-ft	0.9D+E/1.4
PASS	2.911	Sliding - X-X	17.143 k	49.895 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.5637	Z Flexure (+X)	27.968 k-ft	49.613 k-ft	+1.20D+0.50L+0.20S+E
PASS	0.2961	Z Flexure (-X)	14.691 k-ft	49.613 k-ft	+1.40D
PASS	0.2961	X Flexure (+Z)	14.691 k-ft	49.613 k-ft	+1.40D
PASS	0.2961	X Flexure (-Z)	14.691 k-ft	49.613 k-ft	+1.40D
PASS	0.1285	1-way Shear (+X)	13.819 psi	107.52 psi	+1.40D
PASS	0.1285	1-way Shear (-X)	13.819 psi	107.52 psi	+1.40D
PASS	0.1285	1-way Shear (+Z)	13.819 psi	107.52 psi	+1.40D
PASS	0.1285	1-way Shear (-Z)	13.819 psi	107.52 psi	+1.40D
PASS	0.1459	2-way Punching	31.376 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.5830	0.5830	n/a	n/a	0.233
X-X, +D+L+H	2.50	n/a	0.0	0.5830	0.5830	n/a	n/a	0.233
X-X, +D+Lr+H	2.50	n/a	0.0	0.5830	0.5830	n/a	n/a	0.233
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.6319	0.6319	n/a	n/a	0.253
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.6197	0.6197	n/a	n/a	0.248
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.6319	0.6319	n/a	n/a	0.253
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.3008	0.3008	n/a	n/a	0.120
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5830	0.5830	0.233
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5830	0.5830	0.233
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5830	0.5830	0.233
Z-Z, +1.084D+0.70E+H	2.50	37.177	n/a	n/a	n/a	0.0	1.365	0.546
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	28.434	n/a	n/a	n/a	0.07640	1.163	0.465
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	27.883	n/a	n/a	n/a	0.08865	1.175	0.470
Z-Z, +0.5160D+0.70E+H	2.50	78.101	n/a	n/a	n/a	0.0	2.10	0.840

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	511.43 k-ft	1,074.53 k-ft	2.101	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	54.372 k	No Sliding	OK
X-X, 0.9D+E/1.4	17.143 k	49.895 k	2.911	OK
Z-Z, D	0.0 k	54.372 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	49.895 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	14.691 k-ft	+Z	Bottom	0.2079 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.40D	14.691 k-ft	-Z	Bottom	0.2079 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.592 k-ft	+Z	Bottom	0.1781 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.592 k-ft	-Z	Bottom	0.1781 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.296 k-ft	+Z	Bottom	0.0888 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.296 k-ft	-Z	Bottom	0.0888 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing F

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	14.691 k-ft	-X	Bottom	0.2079 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.40D	14.691 k-ft	+X	Bottom	0.2079 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.2094 k-ft	-X	Bottom	0.0029 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	27.968 k-ft	+X	Bottom	0.3978 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	+X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	13.819 psi	13.819 psi	13.819 psi	13.819 psi	13.819 psi	107.52 psi	0.1285	OK
+1.20D+0.50L+0.20S+E	11.844 psi	11.844 psi	11.844 psi	11.844 psi	11.844 psi	107.52 psi	0.1102	OK
+0.60D+E+1.60H	0.0 psi	0.0 psi	5.922 psi	5.922 psi	5.922 psi	107.52 psi	0.05508	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	31.376 psi	215.03 psi	0.1459	OK
+1.20D+0.50L+0.20S+E	27.337 psi	215.03 psi	0.1271	OK
+0.60D+E+1.60H	13.447 psi	215.03 psi	0.06253	OK

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing G

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	: 1
Min. Overturning Safety Factor	=	1.50	: 1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

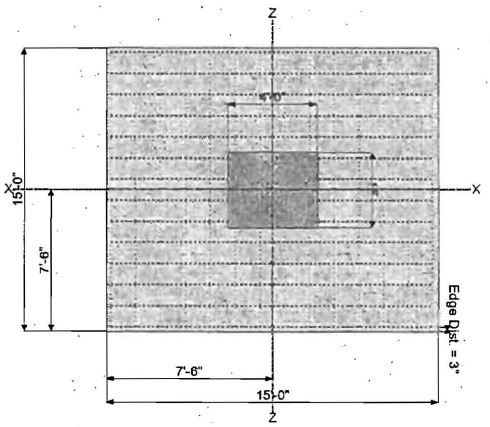
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

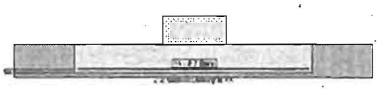
Dimensions

Width along X-X Axis	=	15.0	ft
Length along Z-Z Axi	=	15.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height		24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis			
Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	
Bars along Z-Z Axis			
Number of Bars	=	14.0	
Reinforcing Bar Size	=	# 7	



Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	64.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						470.0		k-ft
V-x	=						20.0		k
V-z	=								k

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing G

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.6732	Soil Bearing	1.683 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.221	Overturning - Z-Z	392.86 k-ft	872.44 k-ft	0.9D+E/1.4
PASS	3.073	Sliding - X-X	14.286 k	43.898 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.4968	Z Flexure (+X)	26.291 k-ft	52.920 k-ft	+0.60D+E+1.60H
PASS	0.2298	Z Flexure (-X)	12.160 k-ft	52.920 k-ft	+1.40D
PASS	0.2298	X Flexure (+Z)	12.160 k-ft	52.920 k-ft	+1.40D
PASS	0.2298	X Flexure (-Z)	12.160 k-ft	52.920 k-ft	+1.40D
PASS	0.1128	1-way Shear (+X)	12.127 psi	107.52 psi	+1.40D
PASS	0.1128	1-way Shear (-X)	12.127 psi	107.52 psi	+1.40D
PASS	0.1128	1-way Shear (+Z)	12.127 psi	107.52 psi	+1.40D
PASS	0.1128	1-way Shear (-Z)	12.127 psi	107.52 psi	+1.40D
PASS	0.1235	2-way Punching	26.552 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.5744	0.5744	n/a	n/a	0.230
X-X, +D+L+H	2.50	n/a	0.0	0.5744	0.5744	n/a	n/a	0.230
X-X, +D+Lr+H	2.50	n/a	0.0	0.5744	0.5744	n/a	n/a	0.230
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.6227	0.6227	n/a	n/a	0.249
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.6106	0.6106	n/a	n/a	0.244
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.6227	0.6227	n/a	n/a	0.249
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2964	0.2964	n/a	n/a	0.119
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5744	0.5744	0.230
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5744	0.5744	0.230
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5744	0.5744	0.230
Z-Z, +1.084D+0.70E+H	2.50	32.975	n/a	n/a	n/a	0.0	1.301	0.520
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	25.220	n/a	n/a	n/a	0.1041	1.117	0.447
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	24.731	n/a	n/a	n/a	0.1162	1.129	0.452
Z-Z, +0.5160D+0.70E+H	2.50	69.273	n/a	n/a	n/a	0.0	1.683	0.673

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	392.86 k-ft	872.44 k-ft	2.221	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	47.775 k	No Sliding	OK
X-X, 0.9D+E/1.4	14.286 k	43.898 k	3.073	OK
Z-Z, D	0.0 k	47.775 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	43.898 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	12.160 k-ft	+Z	Bottom	0.1719 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.40D	12.160 k-ft	-Z	Bottom	0.1719 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	10.423 k-ft	+Z	Bottom	0.1473 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	10.423 k-ft	-Z	Bottom	0.1473 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	5.211 k-ft	+Z	Bottom	0.0735 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	5.211 k-ft	-Z	Bottom	0.0735 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

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ENERCALC, INC. 1983-2008, Ver. 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing G

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	12.160 k-ft	-X	Bottom	0.1719 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.40D	12.160 k-ft	+X	Bottom	0.1719 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.3214 k-ft	-X	Bottom	0.0045 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	22.286 k-ft	+X	Bottom	0.3163 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	26.291 k-ft	+X	Bottom	0.3737 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	12.127 psi	12.127 psi	12.127 psi	12.127 psi	12.127 psi	107.52 psi	0.1128	OK
+1.20D+0.50L+0.20S+E	10.394 psi	10.394 psi	10.395 psi	10.395 psi	10.395 psi	107.52 psi	0.09668	OK
+0.60D+E+1.60H	5.195 psi	5.195 psi	5.197 psi	5.197 psi	5.197 psi	107.52 psi	0.04834	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	26.552 psi	215.03 psi	0.1235	OK
+1.20D+0.50L+0.20S+E	23.038 psi	215.03 psi	0.1071	OK
+0.60D+E+1.60H	13.375 psi	215.03 psi	0.06220	OK

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing H/J

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

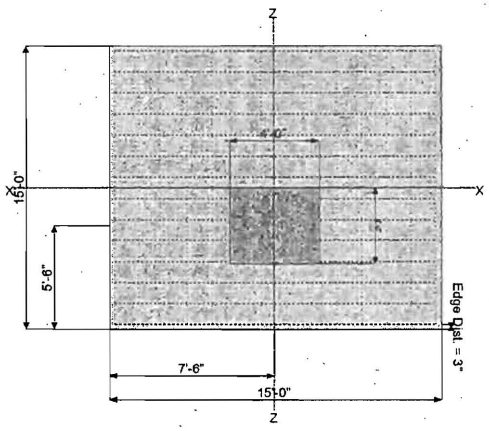
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

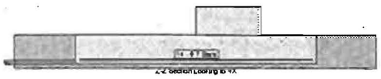
Dimensions

Width along X-X Axis	=	15.0	ft
Length along Z-Z Axi	=	15.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	-24	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height	=	24.0	in
Rebar Centerline to Edge of Concrete.. at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7



Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	68.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						400.0		k-ft
V-x	=						20.0		k
V-z	=								k

Title Block Line 1
You can changes this area using the "Settings" menu item and then using the "Printing & Title Block" selection.
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Title :
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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-14.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner: winzler & kelly consulting engineers

Description : High pipe bridge footing H/J

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.4924	Soil Bearing	1.231 ksf	2.50 ksf	+1.084D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.623	Overturning - Z-Z	342.86 k-ft	899.44 k-ft	0.9D+E/1.4
PASS	3.148	Sliding - X-X	14.286 k	44.978 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.4031	Z Flexure (+X)	21.330 k-ft	52.920 k-ft	+0.60D+E+1.60H
PASS	0.2369	Z Flexure (-X)	12.536 k-ft	52.920 k-ft	+1.40D
PASS	0.3207	X Flexure (+Z)	16.969 k-ft	52.920 k-ft	+1.40D
PASS	0.1289	X Flexure (-Z)	6.823 k-ft	52.920 k-ft	+1.40D
PASS	0.1163	1-way Shear (+X)	12.502 psi	107.52 psi	+1.40D
PASS	0.1163	1-way Shear (-X)	12.502 psi	107.52 psi	+1.40D
PASS	0.1330	1-way Shear (+Z)	14.304 psi	107.52 psi	+1.40D
PASS	0.07487	1-way Shear (-Z)	8.050 psi	107.52 psi	+1.40D
PASS	0.1273	2-way Punching	27.374 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	-12.248	0.8308	0.3537	n/a	n/a	0.332
X-X, +D+L+H	2.50	n/a	-12.248	0.8308	0.3537	n/a	n/a	0.332
X-X, +D+Lr+H	2.50	n/a	-12.248	0.8308	0.3537	n/a	n/a	0.332
X-X, +1.084D+0.70E+H	2.50	n/a	-12.248	0.9006	0.3834	n/a	n/a	0.360
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	-12.248	0.8831	0.3759	n/a	n/a	0.353
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	-12.248	0.9006	0.3834	n/a	n/a	0.360
X-X, +0.5160D+0.70E+H	2.50	n/a	-12.248	0.4287	0.1825	n/a	n/a	0.172
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5922	0.5922	0.237
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5922	0.5922	0.237
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5922	0.5922	0.237
Z-Z, +1.084D+0.70E+H	2.50	27.914	n/a	n/a	n/a	0.05260	1.231	0.492
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	21.349	n/a	n/a	n/a	0.1875	1.072	0.429
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	20.936	n/a	n/a	n/a	0.1999	1.084	0.434
Z-Z, +0.5160D+0.70E+H	2.50	58.641	n/a	n/a	n/a	0.0	1.154	0.462

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	1,135.38 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	1,021.84 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	342.86 k-ft	899.44 k-ft	2.623	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	48.975 k	No Sliding	OK
X-X, 0.9D+E/1.4	14.286 k	44.978 k	3.148	OK
Z-Z, D	0.0 k	48.975 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	44.978 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	16.969 k-ft	+Z	Bottom	0.2403 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.40D	6.823 k-ft	-Z	Bottom	0.0963 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	14.545 k-ft	+Z	Bottom	0.2058 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	5.849 k-ft	-Z	Bottom	0.0825 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	7.272 k-ft	+Z	Bottom	0.1026 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
X-X, +0.60D+E+1.60H	2.924 k-ft	-Z	Bottom	0.0412 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing H/J

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	12.536 k-ft	-X	Bottom	0.1773 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.40D	12.536 k-ft	+X	Bottom	0.1773 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	1.241 k-ft	-X	Bottom	0.0175 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	20.643 k-ft	+X	Bottom	0.2928 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK
Z-Z, +0.60D+E+1.60H	21.330 k-ft	+X	Bottom	0.3026 in2/ft	Calc'd Bending	0.5600 in2/ft	52.920 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	12.502 psi	12.502 psi	8.050 psi	14.304 psi	14.304 psi	107.52 psi	0.1330	OK
+1.20D+0.50L+0.20S+E	10.716 psi	10.716 psi	6.90 psi	12.261 psi	12.261 psi	107.52 psi	0.1140	OK
+0.60D+E+1.60H	5.356 psi	5.356 psi	3.450 psi	6.130 psi	6.130 psi	107.52 psi	0.05702	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	27.374 psi	215.03 psi	0.1273	OK
+1.20D+0.50L+0.20S+E	24.872 psi	215.03 psi	0.1157	OK
+0.60D+E+1.60H	13.789 psi	215.03 psi	0.06412	OK

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General Footing Design

File: C:\Documents and Settings\Tiengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver.: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing M

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	: 1
Min. Overturning Safety Factor	=	1.50	: 1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

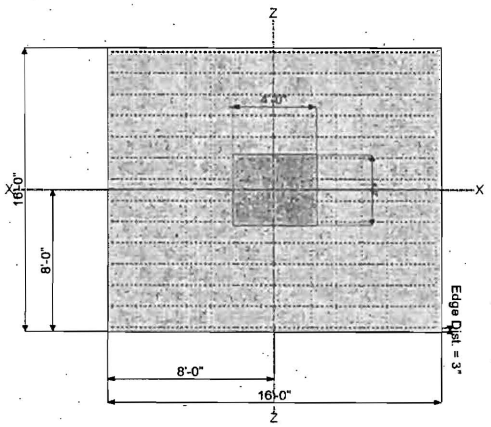
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	16.0	ft
Length along Z-Z Axi	=	16.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height		24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	68.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						570.0		k-ft
V-x	=						20.0		k
V-z	=								k

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General Footing Design

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ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing M

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.6660	Soil Bearing	1.665 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.206	Overturning - Z-Z	464.29 k-ft	1,024.13 k-ft	0.9D+E/1.4
PASS	3.360	Sliding - X-X	14.286 k	48.005 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.6003	Z Flexure (+X)	29.783 k-ft	49.613 k-ft	+0.60D+E+1.60H
PASS	0.2822	Z Flexure (-X)	14.001 k-ft	49.613 k-ft	+1.40D
PASS	0.2822	X Flexure (+Z)	14.001 k-ft	49.613 k-ft	+1.40D
PASS	0.2822	X Flexure (-Z)	14.001 k-ft	49.613 k-ft	+1.40D
PASS	0.1225	1-way Shear (+X)	13.170 psi	107.52 psi	+1.40D
PASS	0.1225	1-way Shear (-X)	13.170 psi	107.52 psi	+1.40D
PASS	0.1225	1-way Shear (+Z)	13.170 psi	107.52 psi	+1.40D
PASS	0.1225	1-way Shear (-Z)	13.170 psi	107.52 psi	+1.40D
PASS	0.1391	2-way Punching	29.905 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.5556	0.5556	n/a	n/a	0.222
X-X, +D+L+H	2.50	n/a	0.0	0.5556	0.5556	n/a	n/a	0.222
X-X, +D+Lr+H	2.50	n/a	0.0	0.5556	0.5556	n/a	n/a	0.222
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.6023	0.6023	n/a	n/a	0.241
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.5906	0.5906	n/a	n/a	0.236
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.6023	0.6023	n/a	n/a	0.241
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2867	0.2867	n/a	n/a	0.115
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5556	0.5556	0.222
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5556	0.5556	0.222
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5556	0.5556	0.222
Z-Z, +1.084D+0.70E+H	2.50	35.411	n/a	n/a	n/a	0.0	1.263	0.505
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	27.083	n/a	n/a	n/a	0.09742	1.084	0.434
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	26.558	n/a	n/a	n/a	0.1091	1.096	0.438
Z-Z, +0.5160D+0.70E+H	2.50	74.391	n/a	n/a	n/a	0.0	1.665	0.666

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	464.29 k-ft	1,024.13 k-ft	2.206	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	52.272 k	No Sliding	OK
X-X, 0.9D+E/1.4	14.286 k	48.005 k	3.360	OK
Z-Z, D	0.0 k	52.272 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	48.005 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	14.001 k-ft	+Z	Bottom	0.1981 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.40D	14.001 k-ft	-Z	Bottom	0.1981 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.001 k-ft	+Z	Bottom	0.1697 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.001 k-ft	-Z	Bottom	0.1697 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.001 k-ft	+Z	Bottom	0.0846 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.001 k-ft	-Z	Bottom	0.0846 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

General Footing Design

Description : High pipe bridge footing M

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	14.001 k-ft	-X	Bottom	0.1981 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.40D	14.001 k-ft	+X	Bottom	0.1981 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.3854 k-ft	-X	Bottom	0.0054 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	25.679 k-ft	+X	Bottom	0.3649 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	29.783 k-ft	+X	Bottom	0.4239 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	13.170 psi	13.170 psi	13.170 psi	13.170 psi	13.170 psi	107.52 psi	0.1225	OK
+1.20D+0.50L+0.20S+E	11.289 psi	11.289 psi	11.289 psi	11.289 psi	11.289 psi	107.52 psi	0.1050	OK
+0.60D+E+1.60H	5.614 psi	5.614 psi	5.644 psi	5.644 psi	5.644 psi	107.52 psi	0.05250	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	29.905 psi	215.03 psi	0.1391	OK
+1.20D+0.50L+0.20S+E	25.916 psi	215.03 psi	0.1205	OK
+0.60D+E+1.60H	14.645 psi	215.03 psi	0.06811	OK

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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : High pipe bridge footing N

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140
Min Allow % Temp Reinf.	=	0.00180
Min. Overturning Safety Factor	=	1.50 : 1
Min. Overturning Safety Factor	=	1.50 : 1
AutoCalc Footing Weight as DL	:	Yes
AutoCalc Pedestal Weight as DL	:	No

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

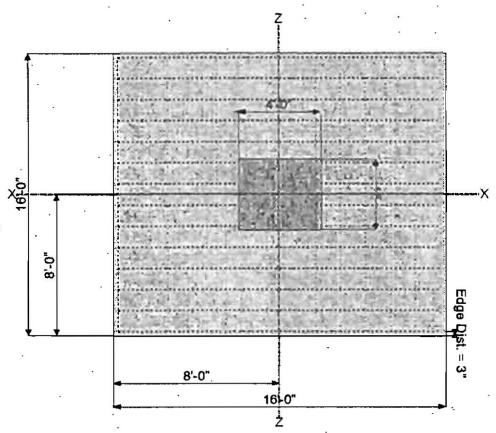
Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	16.0	ft
Length along Z-Z Axi	=	16.0	ft
Footing Thicknes	=	24.0	in
Load location offset from footing center...			
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in
Pedestal dimensions...			
px : Along X-X Axis	=	48.0	in
pz : Along Z-Z Axis	=	48.0	in
Height		24.0	in
Rebar Centerline to Edge of Concrete..			
at Bottom of footing	=	3.0	in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7
Bars along Z-Z Axis		
Number of Bars	=	14.0
Reinforcing Bar Size	=	# 7

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation	n/a
# Bars required within zone	n/a
# Bars required on each side of zone	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	70.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						590.0		k-ft
V-x	=						22.0		k
V-z	=								k

Title Block Line 1
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Title Block Line 6

Title :
Dsgnr:
Project Desc.:

Project Notes :

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DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.7476	Soil Bearing	1.869 ksf	2.50 ksf	+0.5160D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	2.144	Overturning - Z-Z	484.29 k-ft	1,038.53 k-ft	0.9D+E/1.4
PASS	3.089	Sliding - X-X	15.714 k	48.545 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.6224	Z Flexure (+X)	30.878 k-ft	49.613 k-ft	+0.60D+E+1.60H
PASS	0.2862	Z Flexure (-X)	14.198 k-ft	49.613 k-ft	+1.40D
PASS	0.2862	X Flexure (+Z)	14.198 k-ft	49.613 k-ft	+1.40D
PASS	0.2862	X Flexure (-Z)	14.198 k-ft	49.613 k-ft	+1.40D
PASS	0.1242	1-way Shear (+X)	13.356 psi	107.52 psi	+1.40D
PASS	0.1242	1-way Shear (-X)	13.356 psi	107.52 psi	+1.40D
PASS	0.1242	1-way Shear (+Z)	13.356 psi	107.52 psi	+1.40D
PASS	0.1242	1-way Shear (-Z)	13.356 psi	107.52 psi	+1.40D
PASS	0.1410	2-way Punching	30.325 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.5634	0.5634	n/a	n/a	0.225
X-X, +D+L+H	2.50	n/a	0.0	0.5634	0.5634	n/a	n/a	0.225
X-X, +D+Lr+H	2.50	n/a	0.0	0.5634	0.5634	n/a	n/a	0.225
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.6108	0.6108	n/a	n/a	0.244
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.5989	0.5989	n/a	n/a	0.240
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.6108	0.6108	n/a	n/a	0.244
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.2907	0.2907	n/a	n/a	0.116
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.5634	0.5634	0.225
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.5634	0.5634	0.225
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.5634	0.5634	0.225
Z-Z, +1.084D+0.70E+H	2.50	36.425	n/a	n/a	n/a	0.0	1.303	0.521
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	27.858	n/a	n/a	n/a	0.08448	1.113	0.445
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	27.318	n/a	n/a	n/a	0.09631	1.125	0.450
Z-Z, +0.5160D+0.70E+H	2.50	76.520	n/a	n/a	n/a	0.0	1.869	0.748

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	484.29 k-ft	1,038.53 k-ft	2.144	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	52.872 k	No Sliding	OK
X-X, 0.9D+E/1.4	15.714 k	48.545 k	3.089	OK
Z-Z, D	0.0 k	52.872 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	48.545 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	14.198 k-ft	+Z	Bottom	0.2009 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.40D	14.198 k-ft	-Z	Bottom	0.2009 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.170 k-ft	+Z	Bottom	0.1721 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	12.170 k-ft	-Z	Bottom	0.1721 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.085 k-ft	+Z	Bottom	0.0858 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
X-X, +0.60D+E+1.60H	6.085 k-ft	-Z	Bottom	0.0858 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

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Description : High pipe bridge footing N

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z, +1.40D	14.198 k-ft	-X	Bottom	0.2009 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.40D	14.198 k-ft	+X	Bottom	0.2009 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	0.2731 k-ft	-X	Bottom	0.0038 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +1.20D+0.50L+0.20S+E	26.60 k-ft	+X	Bottom	0.3781 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	0.0 k-ft	-X	Top	0.0000 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK
Z-Z, +0.60D+E+1.60H	30.878 k-ft	+X	Bottom	0.4397 in2/ft	Calc'd Bending	0.5250 in2/ft	49.613 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	13.356 psi	13.356 psi	13.356 psi	13.356 psi	13.356 psi	107.52 psi	0.1242	OK
+1.20D+0.50L+0.20S+E	11.447 psi	11.447 psi	11.448 psi	11.448 psi	11.448 psi	107.52 psi	0.1065	OK
+0.60D+E+1.60H	5.608 psi	5.608 psi	5.724 psi	5.724 psi	5.724 psi	107.52 psi	0.05324	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	30.325 psi	215.03 psi	0.1410	OK
+1.20D+0.50L+0.20S+E	26.355 psi	215.03 psi	0.1226	OK
+0.60D+E+1.60H	14.629 psi	215.03 psi	0.06803	OK

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. ____ of ____

Subject T4 Utilities Bridge Job No. 1086409002

Calculations

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B. Space Frame Computer Model B1 - B6

C. Gravity Load Analysis C1 - C27

D. Seismic Analysis D1 - D76

E Bridge Framing Design E1 - E11

F. Foundation Design F1 - F34

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By L Lewis Date 9/09 Client Port of Portland Sheet No. A1 of 5

Subject T4 Utilities Bridge Job No. 1086409002

A Description and Design Criteria

A2/5

DESCRIPTION

The Utilities Bridge is a steel box truss structure 10'-0" high by 9'-0" wide which spans 100 feet between a land pile cap foundation and Berth 401. It is designed with three sliding and one pinned support for lateral forces in the longitudinal axis direction with the pinned support on the berth. This support configuration prevents damage to the bridge from either North-South or East-West plan displacement of the pier. It also allows movement of the land pile cap in both orthogonal directions without damaging the bridge. The bridge includes a permanent catwalk positioned outside the bridge structure for accessing the pipes. The bridge has three levels of pipe support beams spaced 5'- 0" vertically and 20 foot horizontally.

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A3 of 5
Subject T4 Utilities Bridge Job No. 086409002

Design Criteria

Building Occupancy Category II

Seismic Criteria
Seismic Design Category D
Soil Site Class E
Seismic Importance Factor 1.0
Spectral Coefficients
$S_s = .98g$
$S_1 = .35g$

Analysis (Allowable Stress Design)
Space Frame Response Spectrum Analysis
Included w/ Dead Load is 12-10"φ & 3-12"φ pipes filled w/ water

AISC 7 Seismic Loads Table 15.4-1
$R = 1.5$ $\Omega_0 = 1.0$
Detailing Requirement AISC 360
Loading Combination (5): (12.4.2.3)

ASD $(1.0 + .14 S_{DS}) D + .7 \rho Q_E$ $\rho = 1.0$

$$Q_E = \frac{S_{DS} W}{R/I} = \frac{S_{DS} W}{1.5/1} = .67 S_{DS} W$$

$.7 \rho Q_E = .7 \times .67 S_{DS} W = .47 S_{DS} W$

$(1.0 + .14 S_{DS}) D + .47 S_{DS} W$

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Subject T4 Utilities Bridge Job No. 1086409002

Seismic

$S_s = .98$ $S_1 = .35$ Soil Class E

$F_a = .9$ $S_{ms} = F_a S_s = .9 \times .98 = .88$ $F_v = 2.6$

$S_{DS} = 2/3\, S_{ms} = .67 \times .88 = .59$ $S_{m1} = F_v S_1 = 2.6 \times .35 = .91$

Response Spectrum

For $T < T_0$ $S_a = S_{DS}\left(.4 + .6\, T/T_0\right)$

$T_0 = .2 \times \frac{S_{D1}}{S_{DS}}$ $S_{D1} = 2/3\, S_{m1} = .67 \times .91 = .61$

$T_s = \frac{S_{D1}}{S_{DS}}$

For $T > T_s$ $S_a = \frac{S_{D1}}{T}$ $C_s = \frac{.59}{1.5/T} = .393$

Respose Spectrum

T	Sa
.01	.25
.10	.40
.21	.59
.4	.59
.6	.59
.8	.59
1.03	.59
1.2	.51
1.4	.44
1.6	.38
2.0	.31
4.0	.15

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By L. Lewis Date 7/09 Client Port of Portland Sheet No. A5 of 5

Subject T4 Utilities Bridge Job No. 1086409002

Design Criteria cont'd

The bridge is designed to support pipes and their contents up to a maximum load of 400#/ft/level with 3 levels, the total maximum load is 1,200 #/ft. This 1,200 #/ft is on the full length of the bridge and 10'-0" beyond on each end.

The catwalk is designed for a 40 psf live load.

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Subject T4 Utilities Bridge Job No. 1086409002

B. Space Frame Computer Model

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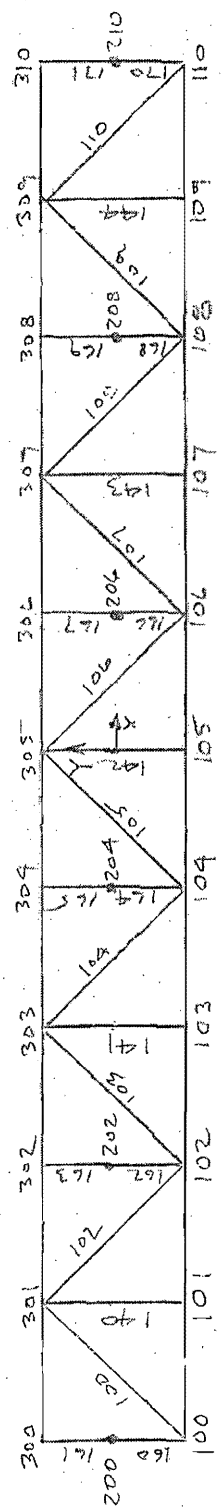
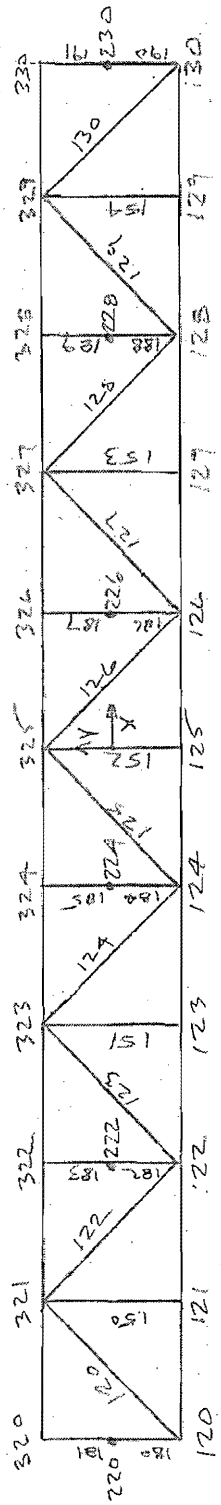
By L. Lewis Date 9/09 Client Port of Portland Sheet No. B2 of 6

Subject T4 Utilities Bridge Job No. 1086409002

Computer Model





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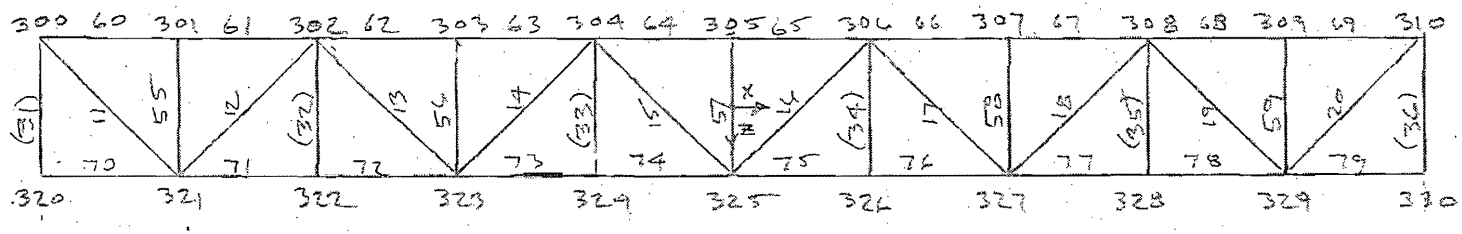
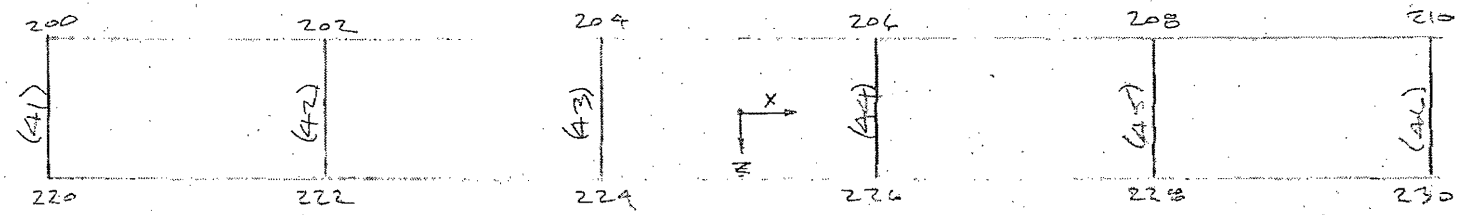
By L. Lewis Date 7/09 Client Port of Portland Sheet No. B3 of 6

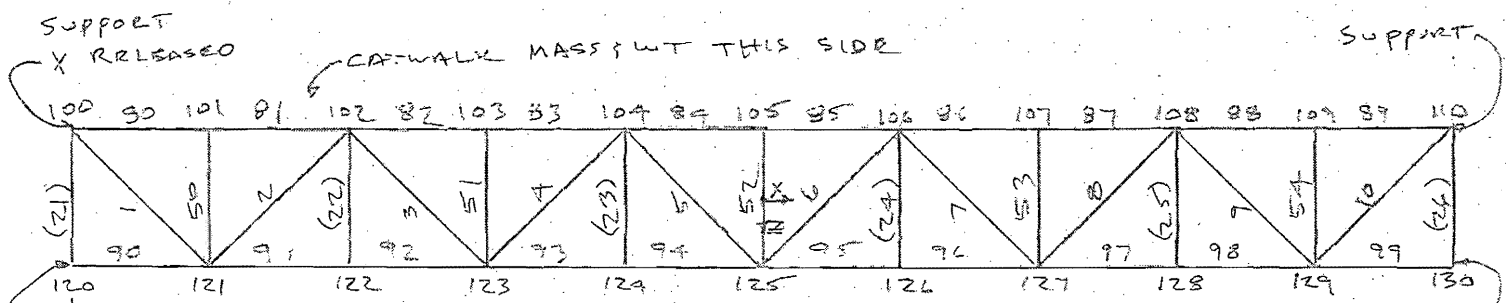
Subject T4 Utilities Bridge Job No. 0266090002



TOP CHORDS (Z = +5.0')



MID-HEIGHT SUPPORT BEAMS (Z = 0.0')



BOTTOM CHORD (Z = -5.0')

( ) FOR MEMBERS IN ( ) SEE NEXT SHEET

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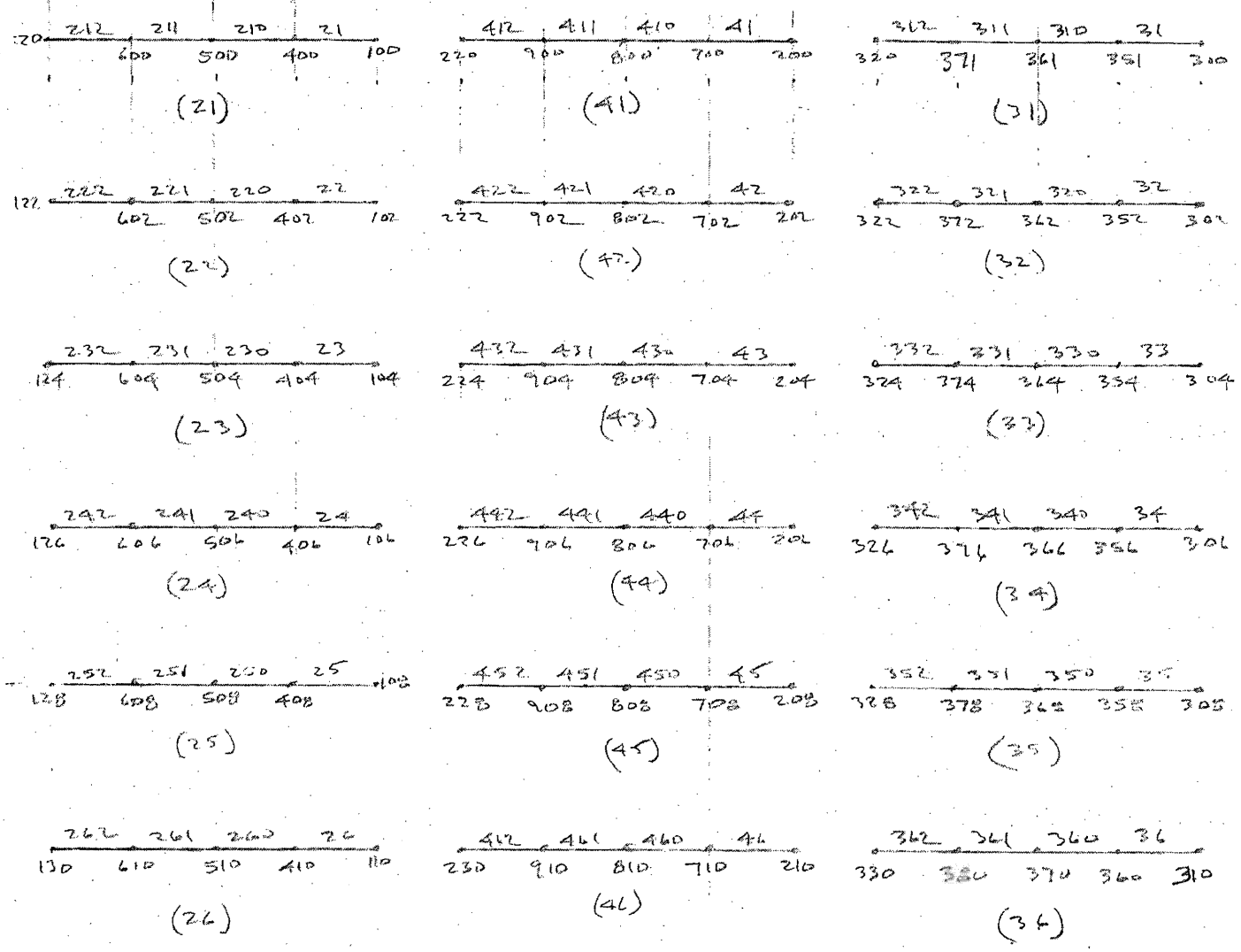
By L. Lewis Date 9/09 Client Port of Portland Sheet No. B4 of 6

Subject T4 Utilities Bridge Job No. 1086409.002

Pipe Support Beams



Support Joints 100, 110, 120, 130

Support Joint Released

100	Shear X	Mom	X Y Z
110		Mom	X Y Z
120	Shear X, Z	Mom	X Y Z
130	Shear X, Z	Mom	X Y Z

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. B5 of 6

Subject T-4 Utilities Bridge Job No. 1086409002

Pipe wt. – All pipes filled w/ water

3 pipe levels w/ 5 pipes level

4 – 10"φ + water = 74.6 x 4 = 298.4 #/ft
1 – 12"φ + water = 102 = 102.0 #/ft

Total pipe wt/level = 400 #/ft

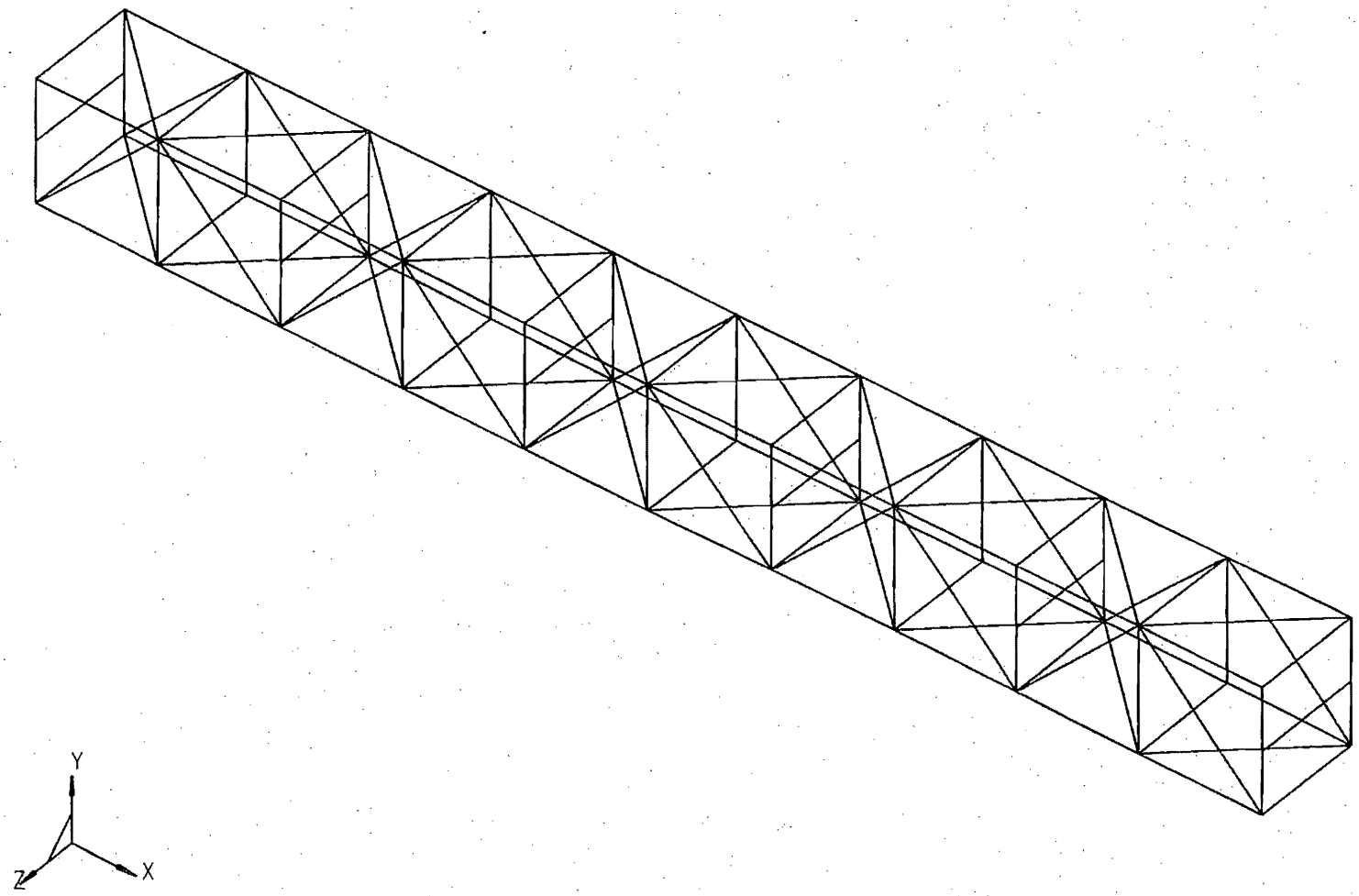
modify steel density of pipe supported bms to account for pipes

bms W 6x20 @ 20' o.c. Area bm = .0408 ft²
bm span = 9'-0"

pipe wt = $\frac{.4 \times 20}{9}$ = .89 k/ft

Total bm wt = .89 + 1.05 x .02 = .911 k/ft

bm density = .911/.0408 = 22.3 k/ft³



UNDEFORMED SHAPE

POP T4 PIPE BRIDGE

EDP - EXTENDED DESIGN PROGRAM
V3.99 01-11- 9 17:06:52
DIGITAL SIMULTONES, INC. 1

B-16

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. C1 of 27

Subject T4 Willamette Bridge Job No. LA86409002

C Gravity Load Analysis

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. C2 of 27

Subject T4 Utilities Bridge Job No. 1D86409002

Computer generated structure wt. w/o pipes

= 29.2 K *

Weight w/ filled pipes = 173.2 K

the pipe weight includes 10' lengths of filled pipes beyond ends of bridge

Filled pipe wt/ft = $\frac{173.2 - 29.2}{120}$ = 1200 #/ft

* generated wt. includes an additional 5% above joint to joint generated weight

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. C3 of 27

Subject T4 Utilities Bridge Job No. 1086409002

Cat walk Dead Load

Toe Plate	= 4 x 1/4 x 2	10.2 #/LF
Handrail Vertical	= $\frac{2.72 \times 4 \times 3}{8}$	4.08
Handrail Horiz	= 2.72 x 4	10.88
C 8 continuous	= 2 x 8.2	16.4
grating	= 3 x 6.3	18.9
outrigger	= $\frac{20 \times 3.4}{10}$	6.8
C6 cross members	= $\frac{8.2}{10}$	.82
		68. #/LF

Catwalk Live Load = 40 psf

C4/27

Gravity Load Analysis

Includes 5% increase

```
AHALF
AHEAD  POP T4 Pipe Bridge
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                  -----------> X-DIR Centerline Bridge
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 V
AHEAD               Z-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________________
* LOADS DEFINITION
*_____________________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)
BLOAD    2    0 Walkway Dead Load
*
BWATR   -Y    -100.0     0.064        1.       32.2        1.
*
*_____________________________________________________________
* NODES DEFINITION
*_____________________________________________________________
*  Bottom Truss Nodes
CNODE  100    -50.00     -5.00     -4.50
CNODE  101    -40.00     -5.00     -4.50
CNODE  102    -30.00     -5.00     -4.50
CNODE  103    -20.00     -5.00     -4.50
CNODE  104    -10.00     -5.00     -4.50
CNODE  105      0.00     -5.00     -4.50
CNODE  106     10.00     -5.00     -4.50
CNODE  107     20.00     -5.00     -4.50
CNODE  108     30.00     -5.00     -4.50
CNODE  109     40.00     -5.00     -4.50
CNODE  110     50.00     -5.00     -4.50
CNODE  120    -50.00     -5.00      4.50
CNODE  121    -40.00     -5.00      4.50
CNODE  122    -30.00     -5.00      4.50
CNODE  123    -20.00     -5.00      4.50
CNODE  124    -10.00     -5.00      4.50
CNODE  125      0.00     -5.00      4.50
CNODE  126     10.00     -5.00      4.50
CNODE  127     20.00     -5.00      4.50
CNODE  128     30.00     -5.00      4.50
CNODE  129     40.00     -5.00      4.50
CNODE  130     50.00     -5.00      4.50
CNODE  200    -50.00      0.00     -4.50
CNODE  202    -30.00      0.00     -4.50
CNODE  204    -10.00      0.00     -4.50
CNODE  206     10.00      0.00     -4.50
CNODE  208     30.00      0.00     -4.50
CNODE  210     50.00      0.00     -4.50
CNODE  220    -50.00      0.00      4.50
CNODE  222    -30.00      0.00      4.50
CNODE  224    -10.00      0.00      4.50
CNODE  226     10.00      0.00      4.50
CNODE  228     30.00      0.00      4.50
CNODE  230     50.00      0.00      4.50
CNODE  300    -50.00      5.00     -4.50
CNODE  301    -40.00      5.00     -4.50
CNODE  302    -30.00      5.00     -4.50
CNODE  303    -20.00      5.00     -4.50
CNODE  304    -10.00      5.00     -4.50
CNODE  305      0.00      5.00     -4.50
CNODE  306     10.00      5.00     -4.50
CNODE  307     20.00      5.00     -4.50
CNODE  308     30.00      5.00     -4.50
CNODE  309     40.00      5.00     -4.50
CNODE  310     50.00      5.00     -4.50
CNODE  320    -50.00      5.00      4.50
CNODE  321    -40.00      5.00      4.50
```

```
CNODE  322    -30.00      5.00      4.50
CNODE  323    -20.00      5.00      4.50
CNODE  324    -10.00      5.00      4.50
CNODE  325      0.00      5.00      4.50
CNODE  326     10.00      5.00      4.50
CNODE  327     20.00      5.00      4.50
CNODE  328     30.00      5.00      4.50
CNODE  329     40.00      5.00      4.50
CNODE  330     50.00      5.00      4.50
CNODE  351    -50.00      5.00     -2.25
CNODE  352    -30.00      5.00     -2.25
CNODE  354    -10.00      5.00     -2.25
CNODE  356     10.00      5.00     -2.25
CNODE  358     30.00      5.00     -2.25
CNODE  360     50.00      5.00     -2.25
CNODE  361    -50.00      5.00      0.00
CNODE  362    -30.00      5.00      0.00
CNODE  364    -10.00      5.00      0.00
CNODE  366     10.00      5.00      0.00
CNODE  368     30.00      5.00      0.00
CNODE  370     50.00      5.00      0.00
CNODE  371    -50.00      5.00      2.25
CNODE  372    -30.00      5.00      2.25
CNODE  374    -10.00      5.00      2.25
CNODE  376     10.00      5.00      2.25
CNODE  378     30.00      5.00      2.25
CNODE  380     50.00      5.00      2.25
CNODE  400    -50.00     -5.00     -2.25
CNODE  402    -30.00     -5.00     -2.25
CNODE  404    -10.00     -5.00     -2.25
CNODE  406     10.00     -5.00     -2.25
CNODE  408     30.00     -5.00     -2.25
CNODE  410     50.00     -5.00     -2.25
CNODE  500    -50.00     -5.00      0.00
CNODE  502    -30.00     -5.00      0.00
CNODE  504    -10.00     -5.00      0.00
CNODE  506     10.00     -5.00      0.00
CNODE  508     30.00     -5.00      0.00
CNODE  510     50.00     -5.00      0.00
CNODE  600    -50.00     -5.00      2.25
CNODE  602    -30.00     -5.00      2.25
CNODE  604    -10.00     -5.00      2.25
CNODE  606     10.00     -5.00      2.25
CNODE  608     30.00     -5.00      2.25
CNODE  610     50.00     -5.00      2.25
CNODE  700    -50.00      0.00     -2.25
CNODE  702    -30.00      0.00     -2.25
CNODE  704    -10.00      0.00     -2.25
CNODE  706     10.00      0.00     -2.25
CNODE  708     30.00      0.00     -2.25
CNODE  710     50.00      0.00     -2.25
CNODE  800    -50.00      0.00      0.00
CNODE  802    -30.00      0.00      0.00
CNODE  804    -10.00      0.00      0.00
CNODE  806     10.00      0.00      0.00
CNODE  808     30.00      0.00      0.00
CNODE  810     50.00      0.00      0.00
CNODE  900    -50.00      0.00      2.25
CNODE  902    -30.00      0.00      2.25
CNODE  904    -10.00      0.00      2.25
CNODE  906     10.00      0.00      2.25
CNODE  908     30.00      0.00      2.25
CNODE  910     50.00      0.00      2.25
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX   100    0    2    2    0    0    0
DFIX   110    2    2    2    0    0    0
DFIX   120    0    2    0    0    0    0
DFIX   130    0    2    0    0    0    0
*
*_____________________________________________
* MATERIAL PROPERTIES
*_____________________________________________
EBEAM BRIDGE
* MATERIAL          E     POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.       0.30      0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.       0.30      22.30    7200.0
*
*_____________________________________________
```

```
* MEMBER PROPERTIES
*
*                    Ax        Ay        Az        Ix        Iy        Iz    dy    dz
* WT5x11 section (strong axis = z axis) vert diagonal
EBSEC    3     .0225     0.395     0.639    0.0001   0.00027   0.00033 0.34 0.24
*
* W6x20 section (strong axis = z axis) support beams, chords
EBSEC    1    0.0408     0.260     0.750    0.0001   0.00064    0.0020 0.26 0.25
*
* W 6x15 section (strong axis = y axis)vertical braces at support beams
EBSEC    2    0.0308     0.340     0.680    0.0001    0.0014   0.00045 0.25 0.25
*
* WT4x6.5 section (strong axis = z axis)vertical braces
EBSEC    4    0.0133     0.520     0.520    0.0001   0.00014   0.00007 0.25 0.17
*
* WT4x9  section (strong axis = y axis)horiz braces
EBSEC    6    0.0183     0.660     0.400    0.0001   0.00020   0.00019 0.22 0.27
*
* WT4x6.5 section (strong axis = y axis)
EBSEC    5    0.0133     0.520     0.520    0.0001   0.00007   0.00014 0.17 0.25
*
* W 6x15 section (strong axis = z axis)vertical braces at support beams
EBSEC    7    0.0308     0.680     0.340    0.0001   0.00045   0.00140 0.25 0.25
*
* WT5x15  section (strong axis = z axis)vertical braces
EBSEC    8    0.0310     0.360     0.660    0.0001   0.00040   0.00045 0.34 0.24
*
* W6x12  section (strong axis = z axis)bottom horiz braces
EBSEC    9    0.0250     0.420     0.560    0.0001   0.00010   0.00011 0.25 0.17
*
* Uniform Member Loads
*
* Operational Loading #1
*EBFGG   45 0.50  0.0                        -273.000
*
* MEMBER DEFINITIONS
*
*
EBMEM    1  100  121        1    6    0    000011    000011
EBMEM    2  102  121        1    6    0    000011    000011
EBMEM    3  102  123        1    6    0    000011    000011
EBMEM    4  104  123        1    6    0    000011    000011
EBMEM    5  104  125        1    6    0    000011    000011
EBMEM    6  106  125        1    6    0    000011    000011
EBMEM    7  106  127        1    6    0    000011    000011
EBMEM    8  108  127        1    6    0    000011    000011
EBMEM    9  108  129        1    6    0    000011    000011
EBMEM   10  110  129        1    6    0    000011    000011
EBMEM   11  300  321        1    6    0    000011    000011
EBMEM   12  302  321        1    6    0    000011    000011
EBMEM   13  302  323        1    6    0    000011    000011
EBMEM   14  304  323        1    6    0    000011    000011
EBMEM   15  304  325        1    6    0    000011    000011
EBMEM   16  306  325        1    6    0    000011    000011
EBMEM   17  306  327        1    6    0    000011    000011
EBMEM   18  308  327        1    6    0    000011    000011
EBMEM   19  308  329        1    6    0    000011    000011
EBMEM   20  310  329        1    6    0    000011    000011
EBMEM   21  100  400        2    1    0    000000    000000
EBMEM   22  102  402        2    1    0    000000    000000
EBMEM   23  104  404        2    1    0    000000    000000
EBMEM   24  106  406        2    1    0    000000    000000
EBMEM   25  108  408        2    1    0    000000    000000
EBMEM   26  110  410        2    1    0    000000    000000
EBMEM  210  400  500        2    1    0    000000    000000
EBMEM  220  402  502        2    1    0    000000    000000
EBMEM  230  404  504        2    1    0    000000    000000
EBMEM  240  406  506        2    1    0    000000    000000
EBMEM  250  408  508        2    1    0    000000    000000
EBMEM  260  410  510        2    1    0    000000    000000
EBMEM  211  500  600        2    1    0    000000    000000
EBMEM  221  502  602        2    1    0    000000    000000
EBMEM  231  504  604        2    1    0    000000    000000
EBMEM  241  506  606        2    1    0    000000    000000
EBMEM  251  508  608        2    1    0    000000    000000
EBMEM  261  510  610        2    1    0    000000    000000
EBMEM  212  600  120        2    1    0    000000    000000
EBMEM  222  602  122        2    1    0    000000    000011
EBMEM  232  604  124        2    1    0    000000    000011
EBMEM  242  606  126        2    1    0    000000    000011
EBMEM  252  608  128        2    1    0    000000    000011
EBMEM  262  610  130        2    1    0    000000    000000
EBMEM   31  300  351        2    1    0    000000    000000
EBMEM   32  302  352        2    1    0    000011    000000
```

EBMEM	33	304	354	2	1	0	000011	000000
EBMEM	34	306	356	2	1	0	000011	000000
EBMEM	35	308	358	2	1	0	000011	000000
EBMEM	36	310	360	2	1	0	000000	000000
EBMEM	310	351	361	2	1	0	000000	000000
EBMEM	320	352	362	2	1	0	000000	000000
EBMEM	330	354	364	2	1	0	000000	000000
EBMEM	340	356	366	2	1	0	000000	000000
EBMEM	350	358	368	2	1	0	000000	000000
EBMEM	360	360	370	2	1	0	000000	000000
EBMEM	311	361	371	2	1	0	000000	000000
EBMEM	321	362	372	2	1	0	000000	000000
EBMEM	331	364	374	2	1	0	000000	000000
EBMEM	341	366	376	2	1	0	000000	000000
EBMEM	351	368	378	2	1	0	000000	000000
EBMEM	361	370	380	2	1	0	000000	000000
EBMEM	312	371	320	2	1	0	000000	000000
EBMEM	322	372	322	2	1	0	000000	000011
EBMEM	332	374	324	2	1	0	000000	000011
EBMEM	342	376	326	2	1	0	000000	000011
EBMEM	352	378	328	2	1	0	000000	000011
EBMEM	362	380	330	2	1	0	000000	000000
EBMEM	41	200	700	2	1	0	000000	000000
EBMEM	42	202	702	2	1	0	000011	000000
EBMEM	43	204	704	2	1	0	000011	000000
EBMEM	44	206	706	2	1	0	000011	000000
EBMEM	45	208	708	2	1	0	000011	000000
EBMEM	46	210	710	2	1	0	000000	000000
EBMEM	410	700	800	2	1	0	000000	000000
EBMEM	420	702	802	2	1	0	000000	000000
EBMEM	430	704	804	2	1	0	000000	000000
EBMEM	440	706	806	2	1	0	000000	000000
EBMEM	450	708	808	2	1	0	000000	000000
EBMEM	460	710	810	2	1	0	000000	000000
EBMEM	411	800	900	2	1	0	000000	000000
EBMEM	421	802	902	2	1	0	000000	000000
EBMEM	431	804	904	2	1	0	000000	000000
EBMEM	441	806	906	2	1	0	000000	000000
EBMEM	451	808	908	2	1	0	000000	000000
EBMEM	461	810	910	2	1	0	000000	000000
EBMEM	412	900	220	2	1	0	000000	000000
EBMEM	422	902	222	2	1	0	000000	000011
EBMEM	432	904	224	2	1	0	000000	000011
EBMEM	442	906	226	2	1	0	000000	000011
EBMEM	452	908	228	2	1	0	000000	000011
EBMEM	462	910	230	2	1	0	000000	000000
EBMEM	50	101	121	1	9	0	000000	000000
EBMEM	51	103	123	1	9	0	000000	000000
EBMEM	52	105	125	1	9	0	000000	000000
EBMEM	53	107	127	1	9	0	000000	000000
EBMEM	54	109	129	1	9	0	000000	000000
EBMEM	55	301	321	1	5	0	000000	000000
EBMEM	56	303	323	1	5	0	000000	000000
EBMEM	57	305	325	1	5	0	000000	000000
EBMEM	58	307	327	1	5	0	000000	000000
EBMEM	59	309	329	1	5	0	000000	000000
EBMEM	60	300	301	1	1	0	000000	000000
EBMEM	61	301	302	1	1	0	000000	000000
EBMEM	62	302	303	1	1	0	000000	000000
EBMEM	63	303	304	1	1	0	000000	000000
EBMEM	64	304	305	1	1	0	000000	000000
EBMEM	65	305	306	1	1	0	000000	000000
EBMEM	66	306	307	1	1	0	000000	000000
EBMEM	67	307	308	1	1	0	000000	000000
EBMEM	68	308	309	1	1	0	000000	000000
EBMEM	69	309	310	1	1	0	000000	000000
EBMEM	70	320	321	1	1	0	000000	000000
EBMEM	71	321	322	1	1	0	000000	000000
EBMEM	72	322	323	1	1	0	000000	000000
EBMEM	73	323	324	1	1	0	000000	000000
EBMEM	74	324	325	1	1	0	000000	000000
EBMEM	75	325	326	1	1	0	000000	000000
EBMEM	76	326	327	1	1	0	000000	000000
EBMEM	77	327	328	1	1	0	000000	000000
EBMEM	78	328	329	1	1	0	000000	000000
EBMEM	79	329	330	1	1	0	000000	000000
EBMEM	80	100	101	1	1	0	000000	000000
EBMEM	81	101	102	1	1	0	000000	000000
EBMEM	82	102	103	1	1	0	000000	000000
EBMEM	83	103	104	1	1	0	000000	000000
EBMEM	84	104	105	1	1	0	000000	000000
EBMEM	85	105	106	1	1	0	000000	000000
EBMEM	86	106	107	1	1	0	000000	000000
EBMEM	87	107	108	1	1	0	000000	000000

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```
EBMEM   88  108  109        1    1    0    000000    000000
EBMEM   89  109  110        1    1    0    000000    000000
EBMEM   90  120  121        1    1    0    000000    000000
EBMEM   91  121  122        1    1    0    000000    000000
EBMEM   92  122  123        1    1    0    000000    000000
EBMEM   93  123  124        1    1    0    000000    000000
EBMEM   94  124  125        1    1    0    000000    000000
EBMEM   95  125  126        1    1    0    000000    000000
EBMEM   96  126  127        1    1    0    000000    000000
EBMEM   97  127  128        1    1    0    000000    000000
EBMEM   98  128  129        1    1    0    000000    000000
EBMEM   99  129  130        1    1    0    000000    000000
EBMEM  100  301  100        1    8    0    000011    000011
EBMEM  102  301  102        1    8    0    000011    000011
*
EBMEM  103  303  102        1    3    0    000011    000011
EBMEM  104  303  104        1    3    0    000011    000011
EBMEM  105  305  104        1    3    0    000011    000011
EBMEM  106  305  106        1    3    0    000011    000011
*
EBMEM  107  307  106        1    3    0    000011    000011
EBMEM  108  307  108        1    3    0    000011    000011
EBMEM  109  309  108        1    8    0    000011    000011
EBMEM  110  309  110        1    8    0    000011    000011
EBMEM  120  321  120        1    8    0    000011    000011
EBMEM  122  321  122        1    8    0    000011    000011
EBMEM  123  323  122        1    3    0    000011    000011
EBMEM  124  323  124        1    3    0    000011    000011
EBMEM  125  325  124        1    3    0    000011    000011
EBMEM  126  325  126        1    3    0    000011    000011
EBMEM  127  327  126        1    3    0    000011    000011
EBMEM  128  327  128        1    3    0    000011    000011
EBMEM  129  329  128        1    8    0    000011    000011
EBMEM  130  329  130        1    8    0    000011    000011
EBMEM  140  301  101        1    4    0    000011    000011
EBMEM  141  303  103        1    4    0    000011    000011
*
EBMEM  142  305  105        1    4    0    000011    000011
EBMEM  143  307  107        1    4    0    000011    000011
EBMEM  144  309  109        1    4    0    000011    000011
EBMEM  150  321  121        1    4    0    000011    000011
EBMEM  151  323  123        1    4    0    000011    000011
EBMEM  152  325  125        1    4    0    000011    000011
EBMEM  153  327  127        1    4    0    000011    000011
EBMEM  154  329  129        1    4    0    000011    000011
EBMEM  160  200  100        1    2    0    000000    000000
EBMEM  161  300  200        1    2    0    000000    000000
EBMEM  162  202  102        1    7    0    000000    000011
EBMEM  163  302  202        1    7    0    000011    000000
EBMEM  164  204  104        1    7    0    000000    000011
EBMEM  165  304  204        1    7    0    000011    000000
EBMEM  166  206  106        1    7    0    000000    000011
*
EBMEM  167  306  206        1    7    0    000011    000000
EBMEM  168  208  108        1    7    0    000000    000011
EBMEM  169  308  208        1    7    0    000011    000000
EBMEM  170  210  110        1    2    0    000000    000000
EBMEM  171  310  210        1    2    0    000000    000000
EBMEM  180  220  120        1    2    0    000000    000000
EBMEM  181  320  220        1    2    0    000000    000000
EBMEM  182  222  122        1    7    0    000000    000011
EBMEM  183  322  222        1    7    0    000011    000000
EBMEM  184  224  124        1    7    0    000000    000011
EBMEM  185  324  224        1    7    0    000011    000000
EBMEM  186  226  126        1    7    0    000000    000011
*
EBMEM  187  326  226        1    7    0    000011    000000
EBMEM  188  228  128        1    7    0    000000    000011
EBMEM  189  328  228        1    7    0    000011    000000
EBMEM  190  230  130        1    2    0    000000    000000
EBMEM  191  330  230        1    2    0    000000    000000
*
FLOAD  101    2        0.000    -0.680    0.000    -1.53    0.0    0.00
FLOAD  102    2        0.000    -0.680             -1.53
FLOAD  103    2                 -0.680             -1.53
FLOAD  104    2                 -0.680             -1.53
FLOAD  105    2                 -0.680             -1.53
FLOAD  106    2                 -0.680             -1.53
FLOAD  107    2                 -0.680             -1.53
FLOAD  108    2                 -0.680             -1.53
FLOAD  109    2                 -0.680             -1.53
FLOAD  100    2                 -0.680             -0.76
FLOAD  110    2                 -0.680             -0.76
*
```

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```
FSUMM     0
*
*
* ____________________________________________________
* LOAD COMBINATION
*
* ____________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1          1.00
FCASE    1    2          1.00
*FCASE    1   10          0.00
*FCASE    1   32          0.00
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*
* ____________________________________________________
* MASS DISTRIBUTION
*
* ____________________________________________________
* Upper Deck
GMASS  101    0          0.018     0.018     0.018
GMASS  102    0          0.018     0.018     0.018
GMASS  103    0          0.018     0.018     0.018
GMASS  104    0          0.018     0.018     0.018
GMASS  105    0          0.018     0.018     0.018
GMASS  106    0          0.018     0.018     0.018
GMASS  107    0          0.018     0.018     0.018
GMASS  108    0          0.018     0.018     0.018
GMASS  109    0          0.018     0.018     0.018
*
GSUMM     0
*
GSCAL     0       1.0       1.0       1.0       1.0       1.0
*
*     ** RESPONSE SPECTRAL CURVE **
*     API C2.3.6c
*     Soils profile Type B, Zone 4, G=0.25
*
GCURV     1     0.010    0.5900                32.17
GCURV           0.100    0.5900
GCURV           0.210    0.5900
GCURV           0.400    0.5900
GCURV           0.600    0.5900
GCURV           0.800    0.5900
GCURV           1.030    0.5900
GCURV           1.200    0.5100
GCURV           1.400    0.4400
GCURV           1.600    0.3800
GCURV           2.000    0.3100
GCURV           4.000    0.1500
*
GRESP     1 +CQC         1 .680                     0.05
GRESP     1 -CQC         1 .680                     0.05
GRESP     1 +CQC                              1 .600 0.05
GRESP     1 -CQC                              1 .600 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*       8700-8706
*#END
*
*
* ____________________________________________________
* ANALYSIS REQUEST
*
* ____________________________________________________
* Linear Static Analysis
ZSTAT     3    3    0
*
* Eigensolution (65 modes)
ZEIGN    65    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP     3    3    0              60    0    0
*
** Non-linear static pushover analysis
*ZPUSH     2    2    1    5    1    0    0    0    0
*                .00001    .00001    .00001     1000.
*                   1.0
**
```

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```
*ZPUSH     5    2    1    5    1    0    0    0    0
*                .00001    .00001    .00001     1000.
*                             1.0
*
**
*ZSNAP     0    2    0              2
*
*  PLOT REQUEST
*
*ZPLOT     1    1    0    0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                 0.00      0.10      1.00       0.00      1.00      0.00
*                 1.00      1.00      1.00
*       UNDF
*        END
**
*ZPLOT     1    1    0    0    0             'OSPREY' PRODUCTION STRUCTURE
*                 1.00      1.00      1.00       0.00      1.00      0.00
*                 1.00      1.00      1.00
*       UNDF
*       PAGE
*       MODE              1
*       PAGE
*       MODE              2
*       PAGE
*       MODE              3
*       PAGE
*       MODE              4
*       PAGE
*       MODE              5
*       END
**
*ZPLOT     1    1    0    0    0             'OSPREY' DECK STRUCTURE
*                 0.00      0.00      1.00       0.00      1.00      0.00
*                 1.00      1.00      1.00
*       UNDF
*       END
***
ZPLOT     1    1    0    0    0             'OSPREY' DECK STRUCTURE
                 1.00     0.001      0.00       0.00      1.00      0.00
                 1.00      1.00      1.00
      UNDF
      END
***
```

STATIC = 1 POP T4 Pipe Bridge [02-12- 9 21:10:50]EDP-PAGE = 26

.....STATIC NODE DISPLACEMENTS Gen. DL + Add. DL + Operating Loads + Live Loads

STATIC LOAD CASE = 1

NODE NUMBER	DISPLACEMENTS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ
100	-3.7337E-02	0.0000E+00	0.0000E+00	0.00E+00	3.73E-02	-90.00	7.6191E-04	3.8020E-04	-4.3254E-03
101	-3.5445E-02	-4.4299E-02	-4.5148E-03	-4.43E-02	3.57E-02	82.74	-7.6934E-03	1.9020E-04	-4.3256E-03
102	-3.3554E-02	-8.4085E-02	-4.9546E-03	-8.41E-02	3.39E-02	81.60	1.4120E-03	3.7428E-04	-3.5691E-03
103	-2.8898E-02	-1.1522E-01	-1.1499E-02	-1.15E-01	3.11E-02	68.30	-8.6739E-03	1.0507E-04	-2.6629E-03
104	-2.4244E-02	-1.3605E-01	-7.9679E-03	-1.36E-01	2.55E-02	71.81	6.6363E-04	1.3511E-04	-1.3532E-03
105	-1.8668E-02	-1.4214E-01	-1.4000E-02	-1.42E-01	2.33E-02	53.13	-9.0603E-03	2.8065E-17	7.4692E-17
106	-1.3093E-02	-1.3605E-01	-7.9679E-03	-1.36E-01	1.53E-02	58.68	6.6363E-04	-1.3511E-04	1.3532E-03
107	-8.4382E-03	-1.1522E-01	-1.1499E-02	-1.15E-01	1.43E-02	36.27	-8.6739E-03	-1.0507E-04	2.6629E-03
108	-3.7831E-03	-8.4085E-02	-4.9546E-03	-8.41E-02	6.23E-03	37.36	1.4120E-03	-3.7428E-04	3.5691E-03
109	-1.8917E-03	-4.4299E-02	-4.5148E-03	-4.43E-02	4.90E-03	22.73	-7.6934E-03	-1.9020E-04	4.3256E-03
110	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	7.6191E-04	-3.8020E-04	4.3254E-03
120	-3.4860E-02	0.0000E+00	6.9964E-05	0.00E+00	3.49E-02	-89.89	-8.9954E-04	3.9565E-04	-3.7489E-03
121	-3.3225E-02	-3.8334E-02	-4.5259E-03	-3.83E-02	3.35E-02	82.24	2.0048E-03	1.7439E-04	-3.7674E-03
122	-3.1593E-02	-7.3107E-02	-4.9657E-03	-7.31E-02	3.20E-02	81.07	7.8749E-04	4.4981E-04	-3.1038E-03
123	-2.7551E-02	-9.9995E-02	-1.1523E-02	-1.00E-01	2.99E-02	67.30	1.1752E-03	8.0871E-05	-2.3174E-03
124	-2.3511E-02	-1.1831E-01	-7.9847E-03	-1.18E-01	2.48E-02	71.24	1.6161E-04	1.6354E-04	-1.1777E-03
125	-1.8668E-02	-1.2342E-01	-1.4030E-02	-1.23E-01	2.34E-02	53.07	7.8347E-04	2.1137E-17	9.4462E-17
126	-1.3826E-02	-1.1831E-01	-7.9847E-03	-1.18E-01	1.60E-02	59.99	1.6161E-04	-1.6354E-04	1.1777E-03
127	-9.7859E-03	-9.9995E-02	-1.1523E-02	-1.00E-01	1.51E-02	40.34	1.1752E-03	-8.0871E-05	2.3174E-03
128	-5.7435E-03	-7.3107E-02	-4.9657E-03	-7.31E-02	7.59E-03	49.15	7.8749E-04	-4.4981E-04	3.1038E-03
129	-4.1118E-03	-3.8334E-02	-4.5259E-03	-3.83E-02	6.11E-03	42.26	2.0048E-03	-1.7439E-04	3.7674E-03
130	-2.4769E-03	0.0000E+00	6.9964E-05	0.00E+00	2.48E-03	-88.38	-8.9954E-04	-3.9565E-04	3.7489E-03
200	-1.8677E-02	-3.3289E-04	-1.6909E-04	-3.33E-04	1.87E-02	89.48	2.3610E-04	4.1475E-06	-3.4320E-03
202	-1.8751E-02	-8.4416E-02	-1.9423E-03	-8.44E-02	1.89E-02	84.09	6.0243E-04	2.7395E-05	-2.9596E-03
204	-1.8697E-02	-1.3638E-01	-2.8713E-03	-1.36E-01	1.89E-02	81.27	1.0193E-03	8.5750E-06	-1.1090E-03
206	-1.8640E-02	-1.3638E-01	-2.8713E-03	-1.36E-01	1.89E-02	81.24	1.0193E-03	-8.5750E-06	1.1090E-03
208	-1.8586E-02	-8.4416E-02	-1.9423E-03	-8.44E-02	1.87E-02	84.03	6.0243E-04	-2.7395E-05	2.9596E-03
210	-1.8659E-02	-3.3289E-04	-1.6909E-04	-3.33E-04	1.87E-02	89.48	2.3610E-04	-4.1475E-06	3.4320E-03
220	-1.8648E-02	-3.2831E-04	-1.6423E-04	-3.28E-04	1.86E-02	89.50	-2.5979E-04	4.5713E-06	-2.9910E-03
222	-1.8722E-02	-7.3433E-02	-1.9423E-03	-7.34E-02	1.88E-02	84.08	6.0469E-04	6.5493E-05	-2.5752E-03
224	-1.8687E-02	-1.1863E-01	-2.8713E-03	-1.19E-01	1.89E-02	81.26	1.0227E-03	2.2644E-05	-9.6514E-04
226	-1.8649E-02	-1.1863E-01	-2.8713E-03	-1.19E-01	1.89E-02	81.25	1.0227E-03	-2.2644E-05	9.6514E-04
228	-1.8615E-02	-7.3433E-02	-1.9423E-03	-7.34E-02	1.87E-02	84.04	6.0469E-04	-6.5493E-05	2.5752E-03
230	-1.8688E-02	-3.2831E-04	-1.6423E-04	-3.28E-04	1.87E-02	89.50	-2.5979E-04	-4.5713E-06	2.9910E-03
300	-2.5713E-04	-5.0301E-04	-1.7140E-04	-5.03E-04	3.09E-04	56.31	8.9974E-04	-3.1362E-04	-4.2287E-03
301	-2.6055E-04	-4.4107E-02	2.4286E-03	-4.41E-02	2.44E-03	-6.12	-2.0232E-04	3.8358E-05	-4.3503E-03
302	-3.9478E-03	-8.4583E-02	1.0697E-03	-8.46E-02	4.09E-03	-74.84	-7.4359E-04	-3.1949E-04	-3.5612E-03
303	-7.6300E-03	-1.1500E-01	6.6017E-03	-1.15E-01	1.01E-02	-49.13	-1.2287E-03	1.0890E-05	-2.6644E-03
304	-1.3150E-02	-1.3654E-01	2.2249E-03	-1.37E-01	1.33E-02	-80.40	-1.3257E-03	-1.1796E-04	-1.3521E-03
305	-1.8668E-02	-1.4192E-01	8.1664E-03	-1.42E-01	2.04E-02	-66.37	-1.6058E-03	1.2081E-18	6.2897E-17
306	-2.4187E-02	-1.3654E-01	2.2249E-03	-1.37E-01	2.43E-02	-84.74	-1.3257E-03	1.1796E-04	1.3521E-03
307	-2.9707E-02	-1.1500E-01	6.6017E-03	-1.15E-01	3.04E-02	-77.47	-1.2287E-03	-1.0890E-05	2.6644E-03
308	-3.3389E-02	-8.4583E-02	1.0697E-03	-8.46E-02	3.34E-02	-88.16	-7.4359E-04	3.1949E-04	3.5612E-03

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309	-3.7076E-02	-4.4107E-02	2.4286E-03	-4.41E-02	3.72E-02	-86.25	-2.0232E-04	-3.8358E-05	4.3503E-03
310	-3.7080E-02	-5.0301E-04	-1.7140E-04	-5.03E-04	3.71E-02	89.74	8.9974E-04	3.1362E-04	4.2287E-03
320	-2.6383E-03	-4.9486E-04	-2.4706E-04	-4.95E-04	2.65E-03	84.65	-9.1012E-04	-3.2039E-04	-3.6694E-03
321	-2.6435E-03	-3.8288E-02	2.4491E-03	-3.83E-02	3.60E-03	-47.19	-9.9303E-04	3.1022E-05	-3.7852E-03
322	-5.8509E-03	-7.3595E-02	1.0812E-03	-7.36E-02	5.95E-03	-79.53	-1.4719E-03	-3.1882E-04	-3.0974E-03
323	-9.0584E-03	-9.9924E-02	6.6477E-03	-9.99E-02	1.12E-02	-53.73	-1.9508E-03	1.0154E-05	-2.3188E-03
324	-1.3863E-02	-1.1879E-01	2.2423E-03	-1.19E-01	1.40E-02	-80.81	-2.1462E-03	-1.1826E-04	-1.1767E-03
325	-1.8668E-02	-1.2334E-01	8.2217E-03	-1.23E-01	2.04E-02	-66.23	-2.3415E-03	3.1107E-19	9.6101E-17
326	-2.3473E-02	-1.1879E-01	2.2423E-03	-1.19E-01	2.36E-02	-84.54	-2.1462E-03	1.1826E-04	1.1767E-03
327	-2.8278E-02	-9.9924E-02	6.6477E-03	-9.99E-02	2.90E-02	-76.77	-1.9508E-03	-1.0154E-05	2.3188E-03
328	-3.1486E-02	-7.3595E-02	1.0812E-03	-7.36E-02	3.15E-02	-88.03	-1.4719E-03	3.1882E-04	3.0974E-03
329	-3.4693E-02	-3.8288E-02	2.4491E-03	-3.83E-02	3.48E-02	-85.96	-9.9303E-04	-3.1022E-05	3.7852E-03
330	-3.4698E-02	-4.9486E-04	-2.4706E-04	-4.95E-04	3.47E-02	89.59	-9.1012E-04	3.2039E-04	3.6694E-03
351	-8.9059E-04	-3.4772E-03	-1.9032E-04	-3.48E-03	9.11E-04	77.94	1.0722E-03	-2.5680E-04	-4.0889E-03
352	-4.4236E-03	-8.8873E-02	1.0726E-03	-8.89E-02	4.55E-03	-76.37	1.0540E-03	-2.1146E-04	-3.4453E-03
354	-1.3328E-02	-1.3914E-01	2.2293E-03	-1.39E-01	1.35E-02	-80.50	3.0220E-04	-7.9251E-05	-1.3083E-03
356	-2.4008E-02	-1.3914E-01	2.2293E-03	-1.39E-01	2.41E-02	-84.70	3.0220E-04	7.9251E-05	1.3083E-03
358	-3.2913E-02	-8.8873E-02	1.0726E-03	-8.89E-02	3.29E-02	-88.13	1.0540E-03	2.1146E-04	3.4453E-03
360	-3.6446E-02	-3.4772E-03	-1.9032E-04	-3.48E-03	3.64E-02	89.70	1.0722E-03	2.5680E-04	4.0889E-03
361	-1.4401E-03	-4.9370E-03	-2.0923E-04	-4.94E-03	1.46E-03	81.73	8.0108E-07	-2.3898E-04	-3.9491E-03
362	-4.8994E-03	-8.8937E-02	1.0755E-03	-8.89E-02	5.02E-03	-77.62	-1.2209E-03	-2.1146E-04	-3.3293E-03
364	-1.3507E-02	-1.3751E-01	2.2336E-03	-1.38E-01	1.37E-02	-80.61	-1.9727E-03	-7.9251E-05	-1.2644E-03
366	-2.3830E-02	-1.3751E-01	2.2336E-03	-1.38E-01	2.39E-02	-84.65	-1.9727E-03	7.9251E-05	1.2644E-03
368	-3.2437E-02	-8.8937E-02	1.0755E-03	-8.89E-02	3.25E-02	-88.10	-1.2209E-03	2.1146E-04	3.3293E-03
370	-3.5897E-02	-4.9370E-03	-2.0923E-04	-4.94E-03	3.59E-02	89.67	8.0108E-07	2.3898E-04	3.9491E-03
371	-1.9934E-03	-3.4798E-03	-2.2815E-04	-3.48E-03	2.01E-03	83.47	-1.0736E-03	-2.6018E-04	-3.8092E-03
372	-5.3752E-03	-8.3379E-02	1.0784E-03	-8.34E-02	5.48E-03	-78.66	-3.4958E-03	-2.1146E-04	-3.2133E-03
374	-1.3685E-02	-1.3026E-01	2.2380E-03	-1.30E-01	1.39E-02	-80.71	-4.2476E-03	-7.9251E-05	-1.2206E-03
376	-2.3652E-02	-1.3026E-01	2.2380E-03	-1.30E-01	2.38E-02	-84.59	-4.2476E-03	7.9251E-05	1.2206E-03
378	-3.1961E-02	-8.3379E-02	1.0784E-03	-8.34E-02	3.20E-02	-88.07	-3.4958E-03	2.1146E-04	3.2133E-03
380	-3.5343E-02	-3.4798E-03	-2.2815E-04	-3.48E-03	3.53E-02	89.63	-1.0736E-03	2.6018E-04	3.8092E-03
400	-3.6636E-02	-2.8002E-03	1.7491E-05	-2.80E-03	3.66E-02	-89.97	1.0392E-03	2.5827E-04	-4.1813E-03
402	-3.2833E-02	-8.7395E-02	-4.9573E-03	-8.74E-02	3.32E-02	81.41	8.1444E-04	2.7181E-04	-3.4528E-03
404	-2.3981E-02	-1.3767E-01	-7.9721E-03	-1.38E-01	2.53E-02	71.61	6.3761E-05	9.9930E-05	-1.3093E-03
406	-1.3355E-02	-1.3767E-01	-7.9721E-03	-1.38E-01	1.56E-02	59.17	6.3761E-05	-9.9930E-05	1.3093E-03
408	-4.5038E-03	-8.7395E-02	-4.9573E-03	-8.74E-02	6.70E-03	42.26	8.1444E-04	-2.7181E-04	3.4528E-03
410	-7.0053E-04	-2.8002E-03	1.7491E-05	-2.80E-03	7.01E-04	-88.57	1.0392E-03	-2.5827E-04	4.1813E-03
500	-3.6116E-02	-4.2711E-03	3.4982E-05	-4.27E-03	3.61E-02	-89.94	2.7419E-05	2.2020E-04	-4.0371E-03
502	-3.2310E-02	-8.7321E-02	-4.9601E-03	-8.73E-02	3.27E-02	81.27	-1.1487E-03	1.9861E-04	-3.3365E-03
504	-2.3787E-02	-1.3591E-01	-7.9763E-03	-1.36E-01	2.51E-02	71.46	-1.9010E-03	7.4803E-05	-1.2654E-03
506	-1.3550E-02	-1.3591E-01	-7.9763E-03	-1.36E-01	1.57E-02	59.52	-1.9010E-03	-7.4803E-05	1.2654E-03
508	-5.0268E-03	-8.7321E-02	-4.9601E-03	-8.73E-02	7.06E-03	45.38	-1.1487E-03	-1.9861E-04	3.3365E-03
510	-1.2211E-03	-4.2711E-03	3.4982E-05	-4.27E-03	1.22E-03	-88.36	2.7419E-05	-2.2020E-04	4.0371E-03
600	-3.5586E-02	-2.9085E-03	5.2473E-05	-2.91E-03	3.56E-02	-89.92	-1.0324E-03	2.6600E-04	-3.8930E-03
602	-3.1919E-02	-8.2187E-02	-4.9629E-03	-8.22E-02	3.23E-02	81.16	-3.2366E-03	1.5469E-04	-3.2201E-03
604	-2.3638E-02	-1.2908E-01	-7.9805E-03	-1.29E-01	2.49E-02	71.34	-3.9898E-03	5.9727E-05	-1.2215E-03
606	-1.3699E-02	-1.2908E-01	-7.9805E-03	-1.29E-01	1.59E-02	59.78	-3.9898E-03	-5.9727E-05	1.2215E-03
608	-5.4181E-03	-8.2187E-02	-4.9629E-03	-8.22E-02	7.35E-03	47.51	-3.2366E-03	-1.5469E-04	3.2201E-03
610	-1.7503E-03	-2.9085E-03	5.2473E-05	-2.91E-03	1.75E-03	-88.28	-1.0324E-03	-2.6600E-04	3.8930E-03
700	-1.8670E-02	-2.1937E-03	-1.6788E-04	-2.19E-03	1.87E-02	89.48	7.4445E-04	2.9918E-06	-3.3217E-03
702	-1.8744E-02	-8.8706E-02	-1.9423E-03	-8.87E-02	1.88E-02	84.08	1.0546E-03	3.1806E-06	-2.8635E-03
704	-1.8694E-02	-1.3898E-01	-2.8713E-03	-1.39E-01	1.89E-02	81.27	3.0270E-04	1.0724E-06	-1.0730E-03
706	-1.8642E-02	-1.3898E-01	-2.8713E-03	-1.39E-01	1.89E-02	81.24	3.0270E-04	-1.0724E-06	1.0730E-03
708	-1.8593E-02	-8.8706E-02	-1.9423E-03	-8.87E-02	1.87E-02	84.04	1.0546E-03	-3.1806E-06	2.8635E-03
710	-1.8667E-02	-2.1937E-03	-1.6788E-04	-2.19E-03	1.87E-02	89.48	7.4445E-04	-2.9918E-06	3.3217E-03
800	-1.8663E-02	-3.2904E-03	-1.6666E-04	-3.29E-03	1.87E-02	89.49	4.0069E-06	2.6773E-06	-3.2115E-03
802	-1.8736E-02	-8.8771E-02	-1.9423E-03	-8.88E-02	1.88E-02	84.08	-1.2203E-03	3.1806E-06	-2.7674E-03

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804	-1.8692E-02	-1.3735E-01	-2.8713E-03	-1.37E-01	1.89E-02	81.27	-1.9722E-03	1.0724E-06	-1.0371E-03
806	-1.8645E-02	-1.3735E-01	-2.8713E-03	-1.37E-01	1.89E-02	81.25	-1.9722E-03	-1.0724E-06	1.0371E-03
808	-1.8600E-02	-8.8771E-02	-1.9423E-03	-8.88E-02	1.87E-02	84.04	-1.2203E-03	-3.1806E-06	2.7674E-03
810	-1.8673E-02	-3.2904E-03	-1.6666E-04	-3.29E-03	1.87E-02	89.49	4.0069E-06	-2.6773E-06	3.2115E-03
900	-1.8657E-02	-2.2093E-03	-1.6544E-04	-2.21E-03	1.87E-02	89.49	-7.4436E-04	3.2038E-06	-3.1013E-03
902	-1.8729E-02	-8.3215E-02	-1.9423E-03	-8.32E-02	1.88E-02	84.08	-3.4952E-03	3.1806E-06	-2.6713E-03
904	-1.8690E-02	-1.3010E-01	-2.8713E-03	-1.30E-01	1.89E-02	81.27	-4.2471E-03	1.0724E-06	-1.0011E-03
906	-1.8647E-02	-1.3010E-01	-2.8713E-03	-1.30E-01	1.89E-02	81.25	-4.2471E-03	-1.0724E-06	1.0011E-03
908	-1.8607E-02	-8.3215E-02	-1.9423E-03	-8.32E-02	1.87E-02	84.04	-3.4952E-03	-3.1806E-06	2.6713E-03
910	-1.8680E-02	-2.2093E-03	-1.6544E-04	-2.21E-03	1.87E-02	89.49	-7.4436E-04	-3.2038E-06	3.1013E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES

	---MINIMUM DISPLACEMENTS----			-----MINIMUM ROTATIONS------			---MAXIMUM DISPLACEMENTS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	100	105	125	105	128	301	110	130	325	121	122	309
DISP	-3.73E-02	-1.42E-01	-1.40E-02	-9.06E-03	-4.50E-04	-4.35E-03	0.00E+00	0.00E+00	8.22E-03	2.00E-03	4.50E-04	4.35E-03

STATIC = 2 POP T4 Pipe Bridge [02-12- 9 21:10:50]EDP-PAGE = 27

.....NODE DISPLACEMENT ENVELOPE SUMMARY

STAT		---MINIMUM DISPLACEMENTS----			-----MINIMUM ROTATIONS------			---MAXIMUM DISPLACEMENTS----			-----MAXIMUM ROTATIONS------		
CASE		X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
1	NODE	100	105	125	105	128	301	300	230	325	121	122	309
	DISP	-3.73E-02	-1.42E-01	-1.40E-02	-9.06E-03	-4.50E-04	-4.35E-03	-2.57E-04	-3.28E-04	8.22E-03	2.00E-03	4.50E-04	4.35E-03

STATIC = 3 POP T4 Pipe Bridge [02-12- 9 21:10:50]EDP-PAGE = 28

.....STATIC NODE REACTIONS

NODE NUMBER	LOAD CASE	----------FORCE---------- X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	----------MOMENT---------- XX	YY	ZZ
100	1	0.0000E+00	-4.6021E+01	8.5320E-13	-4.60E+01	8.53E-13	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	1	-3.3629E-12	-4.6021E+01	1.3160E-12	-4.60E+01	3.61E-12	-68.63	0.0000E+00	0.0000E+00	0.0000E+00
120	1	0.0000E+00	-4.0582E+01	0.0000E+00	-4.06E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	1	0.0000E+00	-4.0582E+01	0.0000E+00	-4.06E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	1	-3.3629E-12	-1.7320E+02	2.1692E-12	-1.73E+02	4.00E-12	-57.18	0.0000E+00	0.0000E+00	0.0000E+00

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STATIC = 4 POP T4 Pipe Bridge [02-12- 9 21:10:50]EDP-PAGE = 29

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
1	1	100	-1.624E-01	6.389E-02	-3.025E-18	-1.549E-02	0.000E+00	0.000E+00	8.87E+00	0.00E+00	0.00E+00	0.001
			1.624E-01	1.624E-17	3.025E-18	1.549E-02	-2.035E-17	2.149E-01	8.87E+00	-2.24E-14	3.05E+02	0.044
		121	1.624E-01	6.389E-02	3.025E-18	1.549E-02	0.000E+00	0.000E+00	8.87E+00	0.00E+00	0.00E+00	0.001
2	1	102	-2.412E-01	6.389E-02	-5.489E-19	6.843E-03	0.000E+00	0.000E+00	1.32E+01	0.00E+00	0.00E+00	0.002
			2.412E-01	-1.177E-17	5.489E-19	-6.843E-03	-3.692E-18	2.149E-01	1.32E+01	-4.06E-15	3.05E+02	0.044
		121	2.412E-01	6.389E-02	5.489E-19	-6.843E-03	0.000E+00	0.000E+00	1.32E+01	0.00E+00	0.00E+00	0.002
3	1	102	-3.835E-01	6.389E-02	-4.095E-18	-7.895E-03	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
			3.835E-01	8.768E-18	4.095E-18	7.895E-03	-2.755E-17	2.149E-01	2.10E+01	-3.03E-14	3.05E+02	0.045
		123	3.835E-01	6.389E-02	4.095E-18	7.895E-03	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
4	1	104	-4.522E-01	6.389E-02	2.012E-18	1.224E-02	0.000E+00	0.000E+00	2.47E+01	0.00E+00	0.00E+00	0.003
			4.522E-01	-8.540E-18	-2.012E-18	-1.224E-02	1.354E-17	2.149E-01	2.47E+01	1.49E-14	3.05E+02	0.046
		123	4.522E-01	6.389E-02	-2.012E-18	-1.224E-02	0.000E+00	0.000E+00	2.47E+01	0.00E+00	0.00E+00	0.003
5	1	104	-5.042E-01	6.389E-02	-3.657E-18	-1.187E-02	0.000E+00	0.000E+00	2.75E+01	0.00E+00	0.00E+00	0.004
			5.042E-01	-7.380E-19	3.657E-18	1.187E-02	-2.460E-17	2.149E-01	2.75E+01	-2.71E-14	3.05E+02	0.046
		125	5.042E-01	6.389E-02	3.657E-18	1.187E-02	0.000E+00	0.000E+00	2.75E+01	0.00E+00	0.00E+00	0.004
6	1	106	-5.042E-01	6.389E-02	3.657E-18	1.187E-02	0.000E+00	0.000E+00	2.75E+01	0.00E+00	0.00E+00	0.004
			5.042E-01	-7.380E-19	-3.657E-18	-1.187E-02	2.460E-17	2.149E-01	2.75E+01	2.71E-14	3.05E+02	0.046
		125	5.042E-01	6.389E-02	-3.657E-18	-1.187E-02	0.000E+00	0.000E+00	2.75E+01	0.00E+00	0.00E+00	0.004
7	1	106	-4.522E-01	6.389E-02	-2.012E-18	-1.224E-02	0.000E+00	0.000E+00	2.47E+01	0.00E+00	0.00E+00	0.003
			4.522E-01	-8.540E-18	2.012E-18	1.224E-02	-1.354E-17	2.149E-01	2.47E+01	-1.49E-14	3.05E+02	0.046
		127	4.522E-01	6.389E-02	2.012E-18	1.224E-02	0.000E+00	0.000E+00	2.47E+01	0.00E+00	0.00E+00	0.003
8	1	108	-3.835E-01	6.389E-02	4.095E-18	7.895E-03	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
			3.835E-01	8.768E-18	-4.095E-18	-7.895E-03	2.755E-17	2.149E-01	2.10E+01	3.03E-14	3.05E+02	0.045
		127	3.835E-01	6.389E-02	-4.095E-18	-7.895E-03	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
9	1	108	-2.412E-01	6.389E-02	5.489E-19	-6.843E-03	0.000E+00	0.000E+00	1.32E+01	0.00E+00	0.00E+00	0.002
			2.412E-01	-1.177E-17	-5.489E-19	6.843E-03	3.692E-18	2.149E-01	1.32E+01	4.06E-15	3.05E+02	0.044
		129	2.412E-01	6.389E-02	-5.489E-19	6.843E-03	0.000E+00	0.000E+00	1.32E+01	0.00E+00	0.00E+00	0.002
10	1	110	-1.624E-01	6.389E-02	3.025E-18	1.549E-02	0.000E+00	0.000E+00	8.87E+00	0.00E+00	0.00E+00	0.001
			1.624E-01	1.624E-17	-3.025E-18	-1.549E-02	2.035E-17	2.149E-01	8.87E+00	2.24E-14	3.05E+02	0.044
		129	1.624E-01	6.389E-02	-3.025E-18	-1.549E-02	0.000E+00	0.000E+00	8.87E+00	0.00E+00	0.00E+00	0.001
11	1	300	1.178E-01	6.389E-02	1.519E-18	1.325E-02	0.000E+00	0.000E+00	-6.44E+00	0.00E+00	0.00E+00	0.001
			-1.178E-01	1.605E-17	-1.519E-18	-1.325E-02	1.022E-17	2.149E-01	-6.44E+00	1.12E-14	3.05E+02	0.043
		321	-1.178E-01	6.389E-02	-1.519E-18	-1.325E-02	0.000E+00	0.000E+00	-6.44E+00	0.00E+00	0.00E+00	0.001
12	1	302	2.654E-01	6.389E-02	-8.979E-19	-4.249E-04	0.000E+00	0.000E+00	-1.45E+01	0.00E+00	0.00E+00	0.002
			-2.654E-01	-1.195E-17	8.979E-19	4.249E-04	-6.040E-18	2.149E-01	-1.45E+01	-6.64E-15	3.05E+02	0.044
		321	-2.654E-01	6.389E-02	8.979E-19	4.249E-04	0.000E+00	0.000E+00	-1.45E+01	0.00E+00	0.00E+00	0.002

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13	1	302	3.816E-01	6.389E-02	3.341E-18	7.897E-04	0.000E+00	0.000E+00	-2.09E+01	0.00E+00	0.00E+00	0.003
			-3.816E-01	8.579E-18	-3.341E-18	-7.897E-04	2.248E-17	2.149E-01	-2.09E+01	2.47E-14	3.05E+02	0.045
		323	-3.816E-01	6.389E-02	-3.341E-18	-7.897E-04	0.000E+00	0.000E+00	-2.09E+01	0.00E+00	0.00E+00	0.003
14	1	304	4.696E-01	6.389E-02	-2.694E-18	2.173E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
			-4.696E-01	-8.726E-18	2.694E-18	-2.173E-03	-1.812E-17	2.149E-01	-2.57E+01	-1.99E-14	3.05E+02	0.046
		323	-4.696E-01	6.389E-02	2.694E-18	-2.173E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
15	1	304	5.116E-01	6.389E-02	3.619E-18	-1.784E-03	0.000E+00	0.000E+00	-2.80E+01	0.00E+00	0.00E+00	0.004
			-5.116E-01	-9.273E-19	-3.619E-18	1.784E-03	2.434E-17	2.149E-01	-2.80E+01	2.68E-14	3.05E+02	0.046
		325	-5.116E-01	6.389E-02	-3.619E-18	1.784E-03	0.000E+00	0.000E+00	-2.80E+01	0.00E+00	0.00E+00	0.004
16	1	306	5.116E-01	6.389E-02	-3.619E-18	1.784E-03	0.000E+00	0.000E+00	-2.80E+01	0.00E+00	0.00E+00	0.004
			-5.116E-01	-9.273E-19	3.619E-18	-1.784E-03	-2.434E-17	2.149E-01	-2.80E+01	-2.68E-14	3.05E+02	0.046
		325	-5.116E-01	6.389E-02	3.619E-18	-1.784E-03	0.000E+00	0.000E+00	-2.80E+01	0.00E+00	0.00E+00	0.004
17	1	306	4.696E-01	6.389E-02	2.694E-18	-2.173E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
			-4.696E-01	-8.726E-18	-2.694E-18	2.173E-03	1.812E-17	2.149E-01	-2.57E+01	1.99E-14	3.05E+02	0.046
		327	-4.696E-01	6.389E-02	-2.694E-18	2.173E-03	0.000E+00	0.000E+00	-2.57E+01	0.00E+00	0.00E+00	0.004
18	1	308	3.816E-01	6.389E-02	-3.341E-18	-7.897E-04	0.000E+00	0.000E+00	-2.09E+01	0.00E+00	0.00E+00	0.003
			-3.816E-01	8.579E-18	3.341E-18	7.897E-04	-2.248E-17	2.149E-01	-2.09E+01	-2.47E-14	3.05E+02	0.045
		327	-3.816E-01	6.389E-02	3.341E-18	7.897E-04	0.000E+00	0.000E+00	-2.09E+01	0.00E+00	0.00E+00	0.003
19	1	308	2.654E-01	6.389E-02	-8.979E-19	4.249E-04	0.000E+00	0.000E+00	-1.45E+01	0.00E+00	0.00E+00	0.002
			-2.654E-01	-1.195E-17	-8.979E-19	-4.249E-04	6.040E-18	2.149E-01	-1.45E+01	6.64E-15	3.05E+02	0.044
		329	-2.654E-01	6.389E-02	-8.979E-19	-4.249E-04	0.000E+00	0.000E+00	-1.45E+01	0.00E+00	0.00E+00	0.002
20	1	310	1.178E-01	6.389E-02	-1.519E-18	-1.325E-02	0.000E+00	0.000E+00	-6.44E+00	0.00E+00	0.00E+00	0.001
			-1.178E-01	1.605E-17	1.519E-18	1.325E-02	-1.022E-17	2.149E-01	-6.44E+00	-1.12E-14	3.05E+02	0.043
		329	-1.178E-01	6.389E-02	1.519E-18	1.325E-02	0.000E+00	0.000E+00	-6.44E+00	0.00E+00	0.00E+00	0.001
21	1	100	-1.324E+00	4.174E+00	-4.427E-02	-1.029E-02	1.946E-01	4.957E+00	3.25E+01	7.91E+01	6.20E+02	0.102
			1.324E+00	-3.150E+00	4.427E-02	1.029E-02	-1.448E-01	-8.372E-01	3.25E+01	-5.88E+01	-1.05E+02	0.027
		400	1.324E+00	-2.127E+00	4.427E-02	1.029E-02	-9.503E-02	2.131E+00	3.25E+01	-3.86E+01	2.66E+02	0.047
22	1	102	2.098E-01	4.300E+00	-1.546E-02	-8.304E-03	1.391E-01	1.852E+00	-5.14E+00	5.65E+01	2.31E+02	0.041
			-2.098E-01	-3.276E+00	1.546E-02	8.304E-03	-1.217E-01	2.410E+00	-5.14E+00	-4.95E+01	3.01E+02	0.049
		402	-2.098E-01	-2.253E+00	1.546E-02	8.304E-03	-1.043E-01	5.520E+00	-5.14E+00	-4.24E+01	6.90E+02	0.102
23	1	104	3.183E-01	4.299E+00	-5.306E-03	-3.132E-03	4.776E-02	1.842E+00	-7.80E+00	1.94E+01	2.30E+02	0.036
			-3.183E-01	-3.275E+00	5.306E-03	3.132E-03	-4.179E-02	2.419E+00	-7.80E+00	-1.70E+01	3.02E+02	0.045
		404	-3.183E-01	-2.252E+00	5.306E-03	3.132E-03	-3.582E-02	5.528E+00	-7.80E+00	-1.46E+01	6.91E+02	0.099
24	1	106	3.183E-01	4.299E+00	5.306E-03	3.132E-03	-4.776E-02	1.842E+00	-7.80E+00	-1.94E+01	2.30E+02	0.036
			-3.183E-01	-3.275E+00	-5.306E-03	-3.132E-03	4.179E-02	2.419E+00	-7.80E+00	1.70E+01	3.02E+02	0.045
		406	-3.183E-01	-2.252E+00	-5.306E-03	-3.132E-03	3.582E-02	5.528E+00	-7.80E+00	1.46E+01	6.91E+02	0.099
25	1	108	2.098E-01	4.300E+00	1.546E-02	8.304E-03	-1.391E-01	1.852E+00	-5.14E+00	-5.65E+01	2.31E+02	0.041
			-2.098E-01	-3.276E+00	-1.546E-02	-8.304E-03	1.217E-01	2.410E+00	-5.14E+00	4.95E+01	3.01E+02	0.049
		408	-2.098E-01	-2.253E+00	-1.546E-02	-8.304E-03	1.043E-01	5.520E+00	-5.14E+00	4.24E+01	6.90E+02	0.102
26	1	110	-1.324E+00	4.174E+00	4.427E-02	1.029E-02	-1.946E-01	4.957E+00	3.25E+01	-7.91E+01	6.20E+02	0.102
			1.324E+00	-3.150E+00	-4.427E-02	-1.029E-02	1.448E-01	-8.372E-01	3.25E+01	5.88E+01	-1.05E+02	0.027
		410	1.324E+00	-2.127E+00	-4.427E-02	-1.029E-02	9.503E-02	2.131E+00	3.25E+01	3.86E+01	2.66E+02	0.047
210	1	400	-1.324E+00	2.127E+00	-4.427E-02	-1.029E-02	9.503E-02	-2.131E+00	3.25E+01	3.86E+01	-2.66E+02	0.047

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			1.324E+00	-1.103E+00	4.427E-02	1.029E-02	-4.522E-02	3.947E+00	3.25E+01	-1.84E+01	4.93E+02	0.076
		500	1.324E+00	-7.938E-02	4.427E-02	1.029E-02	4.589E-03	4.613E+00	3.25E+01	1.86E+00	5.77E+02	0.085
220	1	402	2.098E-01	2.253E+00	-1.546E-02	-8.304E-03	1.043E-01	-5.520E+00	-5.14E+00	4.24E+01	-6.90E+02	0.102
			-2.098E-01	-1.229E+00	1.546E-02	8.304E-03	-8.695E-02	7.479E+00	-5.14E+00	-3.53E+01	9.35E+02	0.135
		502	-2.098E-01	-2.057E-01	1.546E-02	8.304E-03	-6.956E-02	8.286E+00	-5.14E+00	-2.83E+01	1.04E+03	0.148
230	1	404	3.183E-01	2.252E+00	-5.306E-03	-3.132E-03	3.582E-02	-5.528E+00	-7.80E+00	1.46E+01	-6.91E+02	0.099
			-3.183E-01	-1.228E+00	5.306E-03	3.132E-03	-2.985E-02	7.485E+00	-7.80E+00	-1.21E+01	9.36E+02	0.133
		504	-3.183E-01	-2.047E-01	5.306E-03	3.132E-03	-2.388E-02	8.291E+00	-7.80E+00	-9.70E+00	1.04E+03	0.146
240	1	406	3.183E-01	2.252E+00	5.306E-03	3.132E-03	-3.582E-02	-5.528E+00	-7.80E+00	-1.46E+01	-6.91E+02	0.099
			-3.183E-01	-1.228E+00	-5.306E-03	-3.132E-03	2.985E-02	7.485E+00	-7.80E+00	1.21E+01	9.36E+02	0.133
		506	-3.183E-01	-2.047E-01	-5.306E-03	-3.132E-03	2.388E-02	8.291E+00	-7.80E+00	9.70E+00	1.04E+03	0.146
250	1	408	2.098E-01	2.253E+00	1.546E-02	8.304E-03	-1.043E-01	-5.520E+00	-5.14E+00	-4.24E+01	-6.90E+02	0.102
			-2.098E-01	-1.229E+00	-1.546E-02	-8.304E-03	8.695E-02	7.479E+00	-5.14E+00	3.53E+01	9.35E+02	0.135
		508	-2.098E-01	-2.057E-01	-1.546E-02	-8.304E-03	6.956E-02	8.286E+00	-5.14E+00	2.83E+01	1.04E+03	0.148
260	1	410	-1.324E+00	2.127E+00	4.427E-02	1.029E-02	-9.503E-02	-2.131E+00	3.25E+01	-3.86E+01	-2.66E+02	0.047
			1.324E+00	-1.103E+00	-4.427E-02	-1.029E-02	4.522E-02	3.947E+00	3.25E+01	1.84E+01	4.93E+02	0.076
		510	1.324E+00	-7.938E-02	-4.427E-02	-1.029E-02	-4.589E-03	4.613E+00	3.25E+01	-1.86E+00	5.77E+02	0.085
211	1	500	-1.324E+00	7.938E-02	-4.427E-02	-1.029E-02	-4.589E-03	-4.613E+00	3.25E+01	-1.86E+00	-5.77E+02	0.085
			1.324E+00	9.442E-01	4.427E-02	1.029E-02	5.440E-02	4.126E+00	3.25E+01	2.21E+01	5.16E+02	0.079
		600	1.324E+00	1.968E+00	4.427E-02	1.029E-02	1.042E-01	2.488E+00	3.25E+01	4.23E+01	3.11E+02	0.054
221	1	502	2.098E-01	2.057E-01	-1.546E-02	-8.304E-03	6.956E-02	-8.286E+00	-5.14E+00	2.83E+01	-1.04E+03	0.148
			-2.098E-01	8.178E-01	1.546E-02	8.304E-03	-5.217E-02	7.942E+00	-5.14E+00	-2.12E+01	9.93E+02	0.142
		602	-2.098E-01	1.841E+00	1.546E-02	8.304E-03	-3.478E-02	6.446E+00	-5.14E+00	-1.41E+01	8.06E+02	0.115
231	1	504	3.183E-01	2.047E-01	-5.306E-03	-3.132E-03	2.388E-02	-8.291E+00	-7.80E+00	9.70E+00	-1.04E+03	0.146
			-3.183E-01	8.189E-01	5.306E-03	3.132E-03	-1.791E-02	7.946E+00	-7.80E+00	-7.28E+00	9.93E+02	0.140
		604	-3.183E-01	1.842E+00	5.306E-03	3.132E-03	-1.194E-02	6.449E+00	-7.80E+00	-4.85E+00	8.06E+02	0.114
241	1	506	3.183E-01	2.047E-01	5.306E-03	3.132E-03	-2.388E-02	-8.291E+00	-7.80E+00	-9.70E+00	-1.04E+03	0.146
			-3.183E-01	8.189E-01	-5.306E-03	-3.132E-03	1.791E-02	7.946E+00	-7.80E+00	7.28E+00	9.93E+02	0.140
		606	-3.183E-01	1.842E+00	-5.306E-03	-3.132E-03	1.194E-02	6.449E+00	-7.80E+00	4.85E+00	8.06E+02	0.114
251	1	508	2.098E-01	2.057E-01	1.546E-02	8.304E-03	-6.956E-02	-8.286E+00	-5.14E+00	-2.83E+01	-1.04E+03	0.148
			-2.098E-01	8.178E-01	-1.546E-02	-8.304E-03	5.217E-02	7.942E+00	-5.14E+00	2.12E+01	9.93E+02	0.142
		608	-2.098E-01	1.841E+00	-1.546E-02	-8.304E-03	3.478E-02	6.446E+00	-5.14E+00	1.41E+01	8.06E+02	0.115
261	1	510	-1.324E+00	7.938E-02	4.427E-02	1.029E-02	4.589E-03	-4.613E+00	3.25E+01	1.86E+00	-5.77E+02	0.085
			1.324E+00	9.442E-01	-4.427E-02	-1.029E-02	-5.440E-02	4.126E+00	3.25E+01	-2.21E+01	5.16E+02	0.079
		610	1.324E+00	1.968E+00	-4.427E-02	-1.029E-02	-1.042E-01	2.488E+00	3.25E+01	-4.23E+01	3.11E+02	0.054
212	1	600	-1.324E+00	-1.968E+00	-4.427E-02	-1.029E-02	-1.042E-01	-2.488E+00	3.25E+01	-4.23E+01	-3.11E+02	0.054
			1.324E+00	2.991E+00	4.427E-02	1.029E-02	1.540E-01	-3.014E-01	3.25E+01	6.26E+01	-3.77E+01	0.018
		120	1.324E+00	4.015E+00	4.427E-02	1.029E-02	2.038E-01	-4.242E+00	3.25E+01	8.28E+01	-5.30E+02	0.090
222	1	602	2.098E-01	-1.841E+00	-1.546E-02	-8.304E-03	3.478E-02	-6.446E+00	-5.14E+00	1.41E+01	-8.06E+02	0.115
			-2.098E-01	2.865E+00	1.546E-02	8.304E-03	-1.739E-02	3.799E+00	-5.14E+00	-7.06E+00	4.75E+02	0.068
		122	-2.098E-01	3.889E+00	1.546E-02	8.304E-03	0.000E+00	0.000E+00	-5.14E+00	0.00E+00	0.00E+00	0.001
232	1	604	3.183E-01	-1.842E+00	-5.306E-03	-3.132E-03	1.194E-02	-6.449E+00	-7.80E+00	4.85E+00	-8.06E+02	0.114
			-3.183E-01	2.866E+00	5.306E-03	3.132E-03	-5.969E-03	3.800E+00	-7.80E+00	-2.43E+00	4.75E+02	0.067

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		124	-3.183E-01	3.890E+00	5.306E-03	3.132E-03	0.000E+00	0.000E+00	-7.80E+00	0.00E+00	0.00E+00	0.001
242	1	606	3.183E-01	-1.842E+00	5.306E-03	3.132E-03	-1.194E-02	-6.449E+00	-7.80E+00	-4.85E+00	-8.06E+02	0.114
			-3.183E-01	2.866E+00	-5.306E-03	-3.132E-03	5.969E-03	3.800E+00	-7.80E+00	2.43E+00	4.75E+02	0.067
		126	-3.183E-01	3.890E+00	-5.306E-03	-3.132E-03	0.000E+00	0.000E+00	-7.80E+00	0.00E+00	0.00E+00	0.001
252	1	608	2.098E-01	-1.841E+00	1.546E-02	8.304E-03	-3.478E-02	-6.446E+00	-5.14E+00	-1.41E+01	-8.06E+02	0.115
			-2.098E-01	2.865E+00	-1.546E-02	-8.304E-03	1.739E-02	3.799E+00	-5.14E+00	7.06E+00	4.75E+02	0.068
		128	-2.098E-01	3.889E+00	-1.546E-02	-8.304E-03	0.000E+00	0.000E+00	-5.14E+00	0.00E+00	0.00E+00	0.001
262	1	610	-1.324E+00	-1.968E+00	4.427E-02	1.029E-02	1.042E-01	-2.488E+00	3.25E+01	4.23E+01	-3.11E+02	0.054
			1.324E+00	2.991E+00	-4.427E-02	-1.029E-02	-1.540E-01	-3.014E-01	3.25E+01	-6.26E+01	-3.77E+01	0.018
		130	1.324E+00	4.015E+00	-4.427E-02	-1.029E-02	-2.038E-01	-4.242E+00	3.25E+01	-8.28E+01	-5.30E+02	0.090
31	1	300	1.432E+00	4.099E+00	2.060E-02	-9.982E-03	-9.067E-02	4.484E+00	-3.51E+01	-3.68E+01	5.61E+02	0.088
			-1.432E+00	-3.076E+00	-2.060E-02	9.982E-03	6.750E-02	-4.482E-01	-3.51E+01	2.74E+01	-5.60E+01	0.016
		351	-1.432E+00	-2.052E+00	-2.060E-02	9.982E-03	4.433E-02	2.436E+00	-3.51E+01	1.80E+01	3.05E+02	0.050
32	1	302	-2.176E-01	4.094E+00	-4.829E-15	-8.278E-03	0.000E+00	0.000E+00	5.33E+00	0.00E+00	0.00E+00	0.001
			2.176E-01	-3.071E+00	4.829E-15	8.278E-03	4.607E-15	4.030E+00	5.33E+00	1.87E-12	5.04E+02	0.071
		352	2.176E-01	-2.047E+00	4.829E-15	8.278E-03	1.021E-14	6.909E+00	5.33E+00	4.15E-12	8.64E+02	0.121
33	1	304	-3.293E-01	4.094E+00	-3.664E-15	-3.130E-03	0.000E+00	0.000E+00	8.07E+00	0.00E+00	0.00E+00	0.001
			3.293E-01	-3.071E+00	3.664E-15	3.130E-03	4.052E-15	4.030E+00	8.07E+00	1.65E-12	5.04E+02	0.071
		354	3.293E-01	-2.047E+00	3.664E-15	3.130E-03	8.160E-15	6.909E+00	8.07E+00	3.32E-12	8.64E+02	0.121
34	1	306	-3.293E-01	4.094E+00	9.978E-15	3.130E-03	0.000E+00	0.000E+00	8.07E+00	0.00E+00	0.00E+00	0.001
			3.293E-01	-3.071E+00	-9.978E-15	-3.130E-03	-8.493E-15	4.030E+00	8.07E+00	-3.45E-12	5.04E+02	0.071
		356	3.293E-01	-2.047E+00	-9.978E-15	-3.130E-03	-1.704E-14	6.909E+00	8.07E+00	-6.92E-12	8.64E+02	0.121
35	1	308	-2.176E-01	4.094E+00	1.449E-14	8.278E-03	0.000E+00	0.000E+00	5.33E+00	0.00E+00	0.00E+00	0.001
			2.176E-01	-3.071E+00	-1.449E-14	-8.278E-03	-1.343E-14	4.030E+00	5.33E+00	-5.46E-12	5.04E+02	0.071
		358	2.176E-01	-2.047E+00	-1.449E-14	-8.278E-03	-2.709E-14	6.909E+00	5.33E+00	-1.10E-11	8.64E+02	0.121
36	1	310	1.432E+00	4.099E+00	-2.060E-02	9.982E-03	9.067E-02	4.484E+00	-3.51E+01	3.68E+01	5.61E+02	0.088
			-1.432E+00	-3.076E+00	2.060E-02	-9.982E-03	-6.750E-02	-4.482E-01	-3.51E+01	-2.74E+01	-5.60E+01	0.016
		360	-1.432E+00	-2.052E+00	2.060E-02	-9.982E-03	-4.433E-02	2.436E+00	-3.51E+01	-1.80E+01	3.05E+02	0.050
310	1	351	1.432E+00	2.052E+00	2.060E-02	-9.982E-03	-4.433E-02	-2.436E+00	-3.51E+01	-1.80E+01	-3.05E+02	0.050
			-1.432E+00	-1.029E+00	-2.060E-02	9.982E-03	2.116E-02	4.169E+00	-3.51E+01	8.60E+00	5.21E+02	0.078
		361	-1.432E+00	-4.939E-03	-2.060E-02	9.982E-03	-2.010E-03	4.750E+00	-3.51E+01	-8.17E-01	5.94E+02	0.087
320	1	352	-2.176E-01	2.047E+00	-6.661E-16	-8.278E-03	5.385E-15	-6.909E+00	5.33E+00	2.19E-12	-8.64E+02	0.121
			2.176E-01	-1.024E+00	6.661E-16	8.278E-03	-5.218E-15	8.636E+00	5.33E+00	-2.12E-12	1.08E+03	0.151
		362	2.176E-01	4.086E-14	6.661E-16	8.278E-03	-4.219E-15	9.212E+00	5.33E+00	-1.71E-12	1.15E+03	0.161
330	1	354	-3.293E-01	2.047E+00	-4.358E-15	-3.130E-03	-1.027E-15	-6.909E+00	8.07E+00	-4.17E-13	-8.64E+02	0.121
			3.293E-01	-1.024E+00	4.358E-15	3.130E-03	-6.481E-15	8.636E+00	8.07E+00	-2.63E-12	1.08E+03	0.151
		364	3.293E-01	-1.936E-13	4.358E-15	3.130E-03	-1.588E-14	9.212E+00	8.07E+00	-6.45E-12	1.15E+03	0.161
340	1	356	-3.293E-01	2.047E+00	3.431E-14	3.130E-03	-1.277E-14	-6.909E+00	8.07E+00	-5.19E-12	-8.64E+02	0.121
			3.293E-01	-1.024E+00	-3.431E-14	-3.130E-03	-3.174E-14	8.636E+00	8.07E+00	-1.29E-11	1.08E+03	0.151
		366	3.293E-01	1.066E-13	-3.431E-14	-3.130E-03	-6.967E-14	9.212E+00	8.07E+00	-2.83E-11	1.15E+03	0.161
350	1	358	-2.176E-01	2.047E+00	2.331E-14	8.278E-03	2.770E-14	-6.909E+00	5.33E+00	1.13E-11	-8.64E+02	0.121
			2.176E-01	-1.024E+00	-2.331E-14	-8.278E-03	-6.106E-14	8.636E+00	5.33E+00	-2.48E-11	1.08E+03	0.151
		368	2.176E-01	1.688E-13	-2.331E-14	-8.278E-03	-9.071E-14	9.212E+00	5.33E+00	-3.68E-11	1.15E+03	0.161

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360	1	360	1.432E+00	2.052E+00	-2.060E-02	9.982E-03	4.433E-02	-2.436E+00	-3.51E+01	1.80E+01	-3.05E+02	0.050
			-1.432E+00	-1.029E+00	2.060E-02	-9.982E-03	-2.116E-02	4.169E+00	-3.51E+01	-8.60E+00	5.21E+02	0.078
		370	-1.432E+00	-4.939E-03	2.060E-02	-9.982E-03	2.010E-03	4.750E+00	-3.51E+01	8.17E-01	5.94E+02	0.087
311	1	361	1.432E+00	4.939E-03	2.060E-02	-9.982E-03	2.010E-03	-4.750E+00	-3.51E+01	8.17E-01	-5.94E+02	0.087
			-1.432E+00	1.019E+00	-2.060E-02	9.982E-03	-2.518E-02	4.180E+00	-3.51E+01	-1.02E+01	5.23E+02	0.079
		371	-1.432E+00	2.042E+00	-2.060E-02	9.982E-03	-4.835E-02	2.458E+00	-3.51E+01	-1.96E+01	3.07E+02	0.050
321	1	362	-2.176E-01	2.132E-14	-2.220E-16	-8.278E-03	9.159E-15	-9.212E+00	5.33E+00	3.72E-12	-1.15E+03	0.161
			2.176E-01	1.024E+00	2.220E-16	8.278E-03	-8.715E-15	8.636E+00	5.33E+00	-3.54E-12	1.08E+03	0.151
		372	2.176E-01	2.047E+00	2.220E-16	8.278E-03	-8.549E-15	6.909E+00	5.33E+00	-3.47E-12	8.64E+02	0.121
331	1	364	-3.293E-01	3.553E-14	3.719E-15	-3.130E-03	1.177E-14	-9.212E+00	8.07E+00	4.78E-12	-1.15E+03	0.161
			3.293E-01	1.024E+00	-3.719E-15	3.130E-03	-9.534E-15	8.636E+00	8.07E+00	-3.87E-12	1.08E+03	0.151
		374	3.293E-01	2.047E+00	-3.719E-15	3.130E-03	-7.772E-15	6.909E+00	8.07E+00	-3.16E-12	8.64E+02	0.121
341	1	366	-3.293E-01	1.563E-13	-4.968E-15	3.130E-03	4.372E-14	-9.212E+00	8.07E+00	1.78E-11	-1.15E+03	0.161
			3.293E-01	1.024E+00	4.968E-15	-3.130E-03	-3.442E-14	8.636E+00	8.07E+00	-1.40E-11	1.08E+03	0.151
		376	3.293E-01	2.047E+00	4.968E-15	-3.130E-03	-2.537E-14	6.909E+00	8.07E+00	-1.03E-11	8.64E+02	0.121
351	1	368	-2.176E-01	-1.066E-14	7.772E-16	8.278E-03	6.178E-14	-9.212E+00	5.33E+00	2.51E-11	-1.15E+03	0.161
			2.176E-01	1.024E+00	-7.772E-16	-8.278E-03	-5.634E-14	8.636E+00	5.33E+00	-2.29E-11	1.08E+03	0.151
		378	2.176E-01	2.047E+00	-7.772E-16	-8.278E-03	-5.618E-14	6.909E+00	5.33E+00	-2.28E-11	8.64E+02	0.121
361	1	370	1.432E+00	4.939E-03	-2.060E-02	9.982E-03	-2.010E-03	-4.750E+00	-3.51E+01	-8.17E-01	-5.94E+02	0.087
			-1.432E+00	1.019E+00	2.060E-02	-9.982E-03	2.518E-02	4.180E+00	-3.51E+01	1.02E+01	5.23E+02	0.079
		380	-1.432E+00	2.042E+00	2.060E-02	-9.982E-03	4.835E-02	2.458E+00	-3.51E+01	1.96E+01	3.07E+02	0.050
312	1	371	1.432E+00	-2.042E+00	2.060E-02	-9.982E-03	4.835E-02	-2.458E+00	-3.51E+01	1.96E+01	-3.07E+02	0.050
			-1.432E+00	3.066E+00	-2.060E-02	9.982E-03	-7.152E-02	-4.149E-01	-3.51E+01	-2.91E+01	-5.19E+01	0.016
		320	-1.432E+00	4.089E+00	-2.060E-02	9.982E-03	-9.469E-02	-4.440E+00	-3.51E+01	-3.85E+01	-5.55E+02	0.087
322	1	372	-2.176E-01	-2.047E+00	1.776E-15	-8.278E-03	-5.329E-15	-6.909E+00	5.33E+00	-2.16E-12	-8.64E+02	0.121
			2.176E-01	3.071E+00	-1.776E-15	8.278E-03	1.776E-15	4.030E+00	5.33E+00	7.22E-13	5.04E+02	0.071
		322	2.176E-01	4.094E+00	-1.776E-15	8.278E-03	0.000E+00	0.000E+00	5.33E+00	0.00E+00	0.00E+00	0.001
332	1	374	-3.293E-01	-2.047E+00	-1.776E-15	-3.130E-03	0.000E+00	-6.909E+00	8.07E+00	0.00E+00	-8.64E+02	0.121
			3.293E-01	3.071E+00	1.776E-15	3.130E-03	0.000E+00	4.030E+00	8.07E+00	0.00E+00	5.04E+02	0.071
		324	3.293E-01	4.094E+00	1.776E-15	3.130E-03	0.000E+00	0.000E+00	8.07E+00	0.00E+00	0.00E+00	0.001
342	1	376	-3.293E-01	-2.047E+00	-2.132E-14	3.130E-03	4.263E-14	-6.909E+00	8.07E+00	1.73E-11	-8.64E+02	0.121
			3.293E-01	3.071E+00	2.132E-14	-3.130E-03	-2.132E-14	4.030E+00	8.07E+00	-8.66E-12	5.04E+02	0.071
		326	3.293E-01	4.094E+00	2.132E-14	-3.130E-03	0.000E+00	0.000E+00	8.07E+00	0.00E+00	0.00E+00	0.001
352	1	378	-2.176E-01	-2.047E+00	-1.776E-14	8.278E-03	4.974E-14	-6.909E+00	5.33E+00	2.02E-11	-8.64E+02	0.121
			2.176E-01	3.071E+00	1.776E-14	-8.278E-03	-2.487E-14	4.030E+00	5.33E+00	-1.01E-11	5.04E+02	0.071
		328	2.176E-01	4.094E+00	1.776E-14	-8.278E-03	0.000E+00	0.000E+00	5.33E+00	0.00E+00	0.00E+00	0.001
362	1	380	1.432E+00	-2.042E+00	-2.060E-02	9.982E-03	-4.835E-02	-2.458E+00	-3.51E+01	-1.96E+01	-3.07E+02	0.050
			-1.432E+00	3.066E+00	2.060E-02	-9.982E-03	7.152E-02	-4.149E-01	-3.51E+01	2.91E+01	-5.19E+01	0.016
		330	-1.432E+00	4.089E+00	2.060E-02	-9.982E-03	9.469E-02	-4.440E+00	-3.51E+01	3.85E+01	-5.55E+02	0.087
41	1	200	-9.211E-02	4.107E+00	-4.440E-04	-7.869E-03	1.872E-03	5.740E+00	2.26E+00	7.61E-01	7.18E+02	0.100
			9.211E-02	-3.084E+00	4.440E-04	7.869E-03	-1.373E-03	-1.695E+00	2.26E+00	-5.58E-01	-2.12E+02	0.030
		700	9.211E-02	-2.060E+00	4.440E-04	7.869E-03	-8.732E-04	1.198E+00	2.26E+00	-3.55E-01	1.50E+02	0.021

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42	1	202	-9.121E-06	4.094E+00	-9.359E-15	-6.859E-03	0.000E+00	0.000E+00	2.24E-04	0.00E+00	0.00E+00	0.000
			9.121E-06	-3.071E+00	9.359E-15	6.859E-03	8.755E-15	4.030E+00	2.24E-04	3.56E-12	5.04E+02	0.070
		702	9.121E-06	-2.047E+00	9.359E-15	6.859E-03	2.106E-14	6.909E+00	2.24E-04	8.56E-12	8.64E+02	0.120
43	1	204	-1.290E-05	4.094E+00	2.440E-14	-2.567E-03	0.000E+00	0.000E+00	3.16E-04	0.00E+00	0.00E+00	0.000
			1.290E-05	-3.071E+00	-2.440E-14	2.567E-03	-2.922E-14	4.030E+00	3.16E-04	-1.19E-11	5.04E+02	0.070
		704	1.290E-05	-2.047E+00	-2.440E-14	2.567E-03	-5.489E-14	6.909E+00	3.16E-04	-2.23E-11	8.64E+02	0.120
44	1	206	-1.290E-05	4.094E+00	5.024E-16	2.567E-03	0.000E+00	0.000E+00	3.16E-04	0.00E+00	0.00E+00	0.000
			1.290E-05	-3.071E+00	-5.024E-16	-2.567E-03	-1.232E-15	4.030E+00	3.16E-04	-5.01E-13	5.04E+02	0.070
		706	1.290E-05	-2.047E+00	-5.024E-16	-2.567E-03	1.089E-15	6.909E+00	3.16E-04	4.42E-13	8.64E+02	0.120
45	1	208	-9.121E-06	4.094E+00	8.863E-15	6.859E-03	0.000E+00	0.000E+00	2.24E-04	0.00E+00	0.00E+00	0.000
			9.121E-06	-3.071E+00	-8.863E-15	-6.859E-03	-1.042E-14	4.030E+00	2.24E-04	-4.23E-12	5.04E+02	0.070
		708	9.121E-06	-2.047E+00	-8.863E-15	-6.859E-03	-2.083E-14	6.909E+00	2.24E-04	-8.46E-12	8.64E+02	0.120
46	1	210	-9.211E-02	4.107E+00	4.440E-04	7.869E-03	-1.872E-03	5.740E+00	2.26E+00	-7.61E-01	7.18E+02	0.100
			9.211E-02	-3.084E+00	-4.440E-04	-7.869E-03	1.373E-03	-1.695E+00	2.26E+00	5.58E-01	-2.12E+02	0.030
		710	9.211E-02	-2.060E+00	-4.440E-04	-7.869E-03	8.732E-04	1.198E+00	2.26E+00	3.55E-01	1.50E+02	0.021
410	1	700	-9.211E-02	2.060E+00	-4.440E-04	-7.869E-03	8.732E-04	-1.198E+00	2.26E+00	3.55E-01	-1.50E+02	0.021
			9.211E-02	-1.037E+00	4.440E-04	7.869E-03	-3.737E-04	2.940E+00	2.26E+00	-1.52E-01	3.68E+02	0.051
		800	9.211E-02	-1.307E-02	4.440E-04	7.869E-03	1.259E-04	3.531E+00	2.26E+00	5.11E-02	4.41E+02	0.062
420	1	702	-9.121E-06	2.047E+00	5.725E-15	-6.859E-03	-5.948E-14	-6.909E+00	2.24E-04	-2.42E-11	-8.64E+02	0.120
			9.121E-06	-1.024E+00	-5.725E-15	6.859E-03	5.983E-14	8.636E+00	2.24E-04	2.43E-11	1.08E+03	0.150
		802	9.121E-06	1.190E-13	-5.725E-15	6.859E-03	6.436E-14	9.212E+00	2.24E-04	2.61E-11	1.15E+03	0.160
430	1	704	-1.290E-05	2.047E+00	7.692E-15	-2.567E-03	6.038E-14	-6.909E+00	3.16E-04	2.45E-11	-8.64E+02	0.120
			1.290E-05	-1.024E+00	-7.692E-15	2.567E-03	-6.304E-14	8.636E+00	3.16E-04	-2.56E-11	1.08E+03	0.150
		804	1.290E-05	-1.759E-13	-7.692E-15	2.567E-03	-7.059E-14	9.212E+00	3.16E-04	-2.87E-11	1.15E+03	0.160
440	1	706	-1.290E-05	2.047E+00	5.889E-15	2.567E-03	-3.937E-14	-6.909E+00	3.16E-04	-1.60E-11	-8.64E+02	0.120
			1.290E-05	-1.024E+00	-5.889E-15	-2.567E-03	3.368E-14	8.636E+00	3.16E-04	1.37E-11	1.08E+03	0.150
		806	1.290E-05	-5.862E-14	-5.889E-15	-2.567E-03	3.145E-14	9.212E+00	3.16E-04	1.28E-11	1.15E+03	0.160
450	1	708	-9.121E-06	2.047E+00	-1.048E-14	6.859E-03	3.854E-15	-6.909E+00	2.24E-04	1.57E-12	-8.64E+02	0.120
			9.121E-06	-1.024E+00	1.048E-14	-6.859E-03	2.571E-15	8.636E+00	2.24E-04	1.04E-12	1.08E+03	0.150
		808	9.121E-06	-8.882E-14	1.048E-14	-6.859E-03	1.085E-14	9.212E+00	2.24E-04	4.41E-12	1.15E+03	0.160
460	1	710	-9.211E-02	2.060E+00	4.440E-04	7.869E-03	-8.732E-04	-1.198E+00	2.26E+00	-3.55E-01	-1.50E+02	0.021
			9.211E-02	-1.037E+00	-4.440E-04	-7.869E-03	3.737E-04	2.940E+00	2.26E+00	1.52E-01	3.68E+02	0.051
		810	9.211E-02	-1.307E-02	-4.440E-04	-7.869E-03	-1.259E-04	3.531E+00	2.26E+00	-5.11E-02	4.41E+02	0.062
411	1	800	-9.211E-02	1.307E-02	-4.440E-04	-7.869E-03	-1.259E-04	-3.531E+00	2.26E+00	-5.11E-02	-4.41E+02	0.062
			9.211E-02	1.010E+00	4.440E-04	7.869E-03	6.254E-04	2.970E+00	2.26E+00	2.54E-01	3.71E+02	0.052
		900	9.211E-02	2.034E+00	4.440E-04	7.869E-03	1.125E-03	1.257E+00	2.26E+00	4.57E-01	1.57E+02	0.022
421	1	802	-9.121E-06	-1.101E-13	1.047E-14	-6.859E-03	-7.466E-14	-9.212E+00	2.24E-04	-3.03E-11	-1.15E+03	0.160
			9.121E-06	1.024E+00	-1.047E-14	6.859E-03	5.515E-14	8.636E+00	2.24E-04	2.24E-11	1.08E+03	0.150
		902	9.121E-06	2.047E+00	-1.047E-14	6.859E-03	3.868E-14	6.909E+00	2.24E-04	1.57E-11	8.64E+02	0.120
431	1	804	-1.290E-05	-3.588E-13	-6.373E-15	-2.567E-03	4.945E-14	-9.212E+00	3.16E-04	2.01E-11	-1.15E+03	0.160
			1.290E-05	1.024E+00	6.373E-15	2.567E-03	-4.518E-14	8.636E+00	3.16E-04	-1.84E-11	1.08E+03	0.150
		904	1.290E-05	2.047E+00	6.373E-15	2.567E-03	-4.399E-14	6.909E+00	3.16E-04	-1.79E-11	8.64E+02	0.120
441	1	806	-1.290E-05	2.167E-13	2.002E-14	2.567E-03	-6.051E-14	-9.212E+00	3.16E-04	-2.46E-11	-1.15E+03	0.160

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			1.290E-05	1.024E+00	-2.002E-14	-2.567E-03	3.011E-14	8.636E+00	3.16E-04	1.22E-11	1.08E+03	0.150
		906	1.290E-05	2.047E+00	-2.002E-14	-2.567E-03	-5.117E-16	6.909E+00	3.16E-04	-2.08E-13	8.64E+02	0.120
451	1	808	-9.121E-06	1.954E-13	2.309E-14	6.859E-03	-2.108E-14	-9.212E+00	2.24E-04	-8.56E-12	-1.15E+03	0.160
			9.121E-06	1.024E+00	-2.309E-14	-6.859E-03	-2.185E-15	8.636E+00	2.24E-04	-8.88E-13	1.08E+03	0.150
		908	9.121E-06	2.047E+00	-2.309E-14	-6.859E-03	-2.555E-14	6.909E+00	2.24E-04	-1.04E-11	8.64E+02	0.120
461	1	810	-9.211E-02	1.307E-02	4.440E-04	7.869E-03	1.259E-04	-3.531E+00	2.26E+00	5.11E-02	-4.41E+02	0.062
			9.211E-02	1.010E+00	-4.440E-04	-7.869E-03	-6.254E-04	2.970E+00	2.26E+00	-2.54E-01	3.71E+02	0.052
		910	9.211E-02	2.034E+00	-4.440E-04	-7.869E-03	-1.125E-03	1.257E+00	2.26E+00	-4.57E-01	1.57E+02	0.022
412	1	900	-9.211E-02	-2.034E+00	-4.440E-04	-7.869E-03	-1.125E-03	-1.257E+00	2.26E+00	-4.57E-01	-1.57E+02	0.022
			9.211E-02	3.058E+00	4.440E-04	7.869E-03	1.624E-03	-1.607E+00	2.26E+00	6.60E-01	-2.01E+02	0.028
		220	9.211E-02	4.081E+00	4.440E-04	7.869E-03	2.124E-03	-5.622E+00	2.26E+00	8.63E-01	-7.03E+02	0.098
422	1	902	-9.121E-06	-2.047E+00	-5.329E-15	-6.859E-03	1.421E-14	-6.909E+00	2.24E-04	5.77E-12	-8.64E+02	0.120
			9.121E-06	3.071E+00	5.329E-15	6.859E-03	-7.105E-15	4.030E+00	2.24E-04	-2.89E-12	5.04E+02	0.070
		222	9.121E-06	4.094E+00	5.329E-15	6.859E-03	0.000E+00	0.000E+00	2.24E-04	0.00E+00	0.00E+00	0.000
432	1	904	-1.290E-05	-2.047E+00	-3.553E-15	-2.567E-03	7.105E-15	-6.909E+00	3.16E-04	2.89E-12	-8.64E+02	0.120
			1.290E-05	3.071E+00	3.553E-15	2.567E-03	-3.553E-15	4.030E+00	3.16E-04	-1.44E-12	5.04E+02	0.070
		224	1.290E-05	4.094E+00	3.553E-15	2.567E-03	0.000E+00	0.000E+00	3.16E-04	0.00E+00	0.00E+00	0.000
442	1	906	-1.290E-05	-2.047E+00	1.066E-14	2.567E-03	-2.487E-14	-6.909E+00	3.16E-04	-1.01E-11	-8.64E+02	0.120
			1.290E-05	3.071E+00	-1.066E-14	-2.567E-03	1.243E-14	4.030E+00	3.16E-04	5.05E-12	5.04E+02	0.070
		226	1.290E-05	4.094E+00	-1.066E-14	-2.567E-03	0.000E+00	0.000E+00	3.16E-04	0.00E+00	0.00E+00	0.000
452	1	908	-9.121E-06	-2.047E+00	-7.105E-15	6.859E-03	1.421E-14	-6.909E+00	2.24E-04	5.77E-12	-8.64E+02	0.120
			9.121E-06	3.071E+00	7.105E-15	-6.859E-03	-7.105E-15	4.030E+00	2.24E-04	-2.89E-12	5.04E+02	0.070
		228	9.121E-06	4.094E+00	7.105E-15	-6.859E-03	0.000E+00	0.000E+00	2.24E-04	0.00E+00	0.00E+00	0.000
462	1	910	-9.211E-02	-2.034E+00	4.440E-04	7.869E-03	1.125E-03	-1.257E+00	2.26E+00	4.57E-01	-1.57E+02	0.022
			9.211E-02	3.058E+00	-4.440E-04	-7.869E-03	-1.624E-03	-1.607E+00	2.26E+00	-6.60E-01	-2.01E+02	0.028
		230	9.211E-02	4.081E+00	-4.440E-04	-7.869E-03	-2.124E-03	-5.622E+00	2.26E+00	-8.63E-01	-7.03E+02	0.098
50	1	101	1.289E-01	2.062E-01	3.972E-03	-9.963E-03	-1.714E-02	1.248E+00	-5.16E+00	-4.29E+01	1.93E+03	0.275
			-1.289E-01	-1.479E-01	-3.972E-03	9.963E-03	-7.336E-04	-4.512E-01	-5.16E+00	-1.83E+00	-6.97E+02	0.098
		121	-1.289E-01	-8.947E-02	-3.972E-03	9.963E-03	-1.861E-02	8.280E-02	-5.16E+00	-4.65E+01	1.28E+02	0.025
51	1	103	2.829E-01	1.979E-01	3.503E-03	-6.166E-03	-1.464E-02	1.218E+00	-1.13E+01	-3.66E+01	1.88E+03	0.268
			-2.829E-01	-1.395E-01	-3.503E-03	6.166E-03	-1.123E-03	-4.589E-01	-1.13E+01	-2.81E+00	-7.09E+02	0.100
		123	-2.829E-01	-8.111E-02	-3.503E-03	6.166E-03	-1.689E-02	3.747E-02	-1.13E+01	-4.22E+01	5.79E+01	0.015
52	1	105	3.414E-01	1.979E-01	-1.318E-15	-3.528E-16	6.283E-15	1.218E+00	-1.37E+01	1.57E-11	1.88E+03	0.263
			-3.414E-01	-1.395E-01	1.318E-15	3.528E-16	-3.215E-16	-4.586E-01	-1.37E+01	-8.04E-13	-7.09E+02	0.100
		125	-3.414E-01	-8.109E-02	1.318E-15	3.528E-16	5.580E-15	3.762E-02	-1.37E+01	1.40E-11	5.81E+01	0.010
53	1	107	2.829E-01	1.979E-01	-3.503E-03	6.166E-03	1.464E-02	1.218E+00	-1.13E+01	3.66E+01	1.88E+03	0.268
			-2.829E-01	-1.395E-01	3.503E-03	-6.166E-03	1.123E-03	-4.589E-01	-1.13E+01	2.81E+00	-7.09E+02	0.100
		127	-2.829E-01	-8.111E-02	3.503E-03	-6.166E-03	1.689E-02	3.747E-02	-1.13E+01	4.22E+01	5.79E+01	0.015
54	1	109	1.289E-01	2.062E-01	-3.972E-03	9.963E-03	1.714E-02	1.248E+00	-5.16E+00	4.29E+01	1.93E+03	0.275
			-1.289E-01	-1.479E-01	3.972E-03	-9.963E-03	7.336E-04	-4.512E-01	-5.16E+00	1.83E+00	-6.97E+02	0.098
		129	-1.289E-01	-8.947E-02	3.972E-03	-9.963E-03	1.861E-02	8.280E-02	-5.16E+00	4.65E+01	1.28E+02	0.025
55	1	301	-1.271E-01	2.686E-02	-1.292E-02	-1.008E-02	5.837E-02	-2.368E-02	9.55E+00	1.42E+02	-4.23E+01	0.027
			1.271E-01	4.203E-03	1.292E-02	1.008E-02	-2.383E-04	7.466E-02	9.55E+00	-5.79E-01	1.33E+02	0.020

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		321	1.271E-01	3.526E-02	1.292E-02	1.008E-02	5.789E-02	-1.414E-02	9.55E+00	1.41E+02	-2.53E+01	0.024
56	1	303	-2.836E-01	2.373E-02	-7.300E-03	-6.168E-03	3.288E-02	-3.333E-02	2.13E+01	7.98E+01	-5.95E+01	0.022
			2.836E-01	7.336E-03	7.300E-03	6.168E-03	-2.389E-05	7.021E-02	2.13E+01	-5.80E-02	1.25E+02	0.020
		323	2.836E-01	3.840E-02	7.300E-03	6.168E-03	3.283E-02	-3.270E-02	2.13E+01	7.97E+01	-5.84E+01	0.022
57	1	305	-3.411E-01	2.326E-02	1.876E-16	-5.926E-16	-7.571E-16	-3.631E-02	2.56E+01	-1.84E-12	-6.48E+01	0.013
			3.411E-01	7.802E-03	-1.876E-16	5.926E-16	-2.913E-17	7.109E-02	2.56E+01	-7.08E-14	1.27E+02	0.021
		325	3.411E-01	3.886E-02	-1.876E-16	5.926E-16	-8.479E-16	-3.391E-02	2.56E+01	-2.06E-12	-6.06E+01	0.012
58	1	307	-2.836E-01	2.373E-02	7.300E-03	6.168E-03	-3.288E-02	-3.333E-02	2.13E+01	-7.98E+01	-5.95E+01	0.022
			2.836E-01	7.336E-03	-7.300E-03	-6.168E-03	2.389E-05	7.021E-02	2.13E+01	5.80E-02	1.25E+02	0.020
		327	2.836E-01	3.840E-02	-7.300E-03	-6.168E-03	-3.283E-02	-3.270E-02	2.13E+01	-7.97E+01	-5.84E+01	0.022
59	1	309	-1.271E-01	2.686E-02	1.292E-02	1.008E-02	-5.837E-02	-2.368E-02	9.55E+00	-1.42E+02	-4.23E+01	0.027
			1.271E-01	4.203E-03	-1.292E-02	-1.008E-02	2.383E-04	7.466E-02	9.55E+00	5.79E-01	1.33E+02	0.020
		329	1.271E-01	3.526E-02	-1.292E-02	-1.008E-02	-5.789E-02	-1.414E-02	9.55E+00	-1.41E+02	-2.53E+01	0.024
60	1	300	5.829E-02	1.730E-01	-3.899E-02	1.770E-02	1.009E-01	6.137E-01	-1.43E+00	4.10E+01	7.67E+01	0.017
			-5.829E-02	-6.715E-02	3.899E-02	-1.770E-02	9.407E-02	-1.327E-02	-1.43E+00	3.82E+01	-1.66E+00	0.006
		301	-5.829E-02	3.873E-02	3.899E-02	-1.770E-02	2.890E-01	5.777E-02	-1.43E+00	1.17E+02	7.22E+00	0.018
61	1	301	6.282E+01	1.928E-01	8.809E-02	8.694E-03	-3.448E-01	-4.769E-02	-1.54E+03	-1.40E+02	-5.96E+00	0.234
			-6.282E+01	-8.697E-02	-8.809E-02	-8.694E-03	-9.564E-02	7.472E-01	-1.54E+03	-3.89E+01	9.34E+01	0.232
		302	-6.282E+01	1.891E-02	-8.809E-02	-8.694E-03	-5.361E-01	9.174E-01	-1.54E+03	-2.18E+02	1.15E+02	0.260
62	1	302	6.274E+01	3.852E-02	-1.271E-01	7.791E-03	5.472E-01	-9.093E-01	-1.54E+03	2.22E+02	-1.14E+02	0.260
			-6.274E+01	6.736E-02	1.271E-01	-7.791E-03	8.830E-02	8.373E-01	-1.54E+03	3.59E+01	1.05E+02	0.233
		303	-6.274E+01	1.732E-01	1.271E-01	-7.791E-03	7.238E-01	2.358E-01	-1.54E+03	2.94E+02	2.95E+01	0.258
63	1	303	9.405E+01	2.439E-01	1.565E-01	1.558E-03	-7.482E-01	-2.296E-01	-2.31E+03	-3.04E+02	-2.87E+01	0.366
			-9.405E+01	-1.380E-01	-1.565E-01	-1.558E-03	-3.444E-02	1.184E+00	-2.31E+03	-1.40E+01	1.48E+02	0.343
		304	-9.405E+01	-3.211E-02	-1.565E-01	-1.558E-03	-8.170E-01	1.609E+00	-2.31E+03	-3.32E+02	2.01E+02	0.394
64	1	304	9.402E+01	-2.488E-02	-1.705E-01	4.499E-03	8.211E-01	-1.607E+00	-2.30E+03	3.34E+02	-2.01E+02	0.394
			-9.402E+01	1.308E-01	1.705E-01	-4.499E-03	3.153E-02	1.218E+00	-2.30E+03	1.28E+01	1.52E+02	0.343
		305	-9.402E+01	2.366E-01	1.705E-01	-4.499E-03	8.842E-01	2.990E-01	-2.30E+03	3.59E+02	3.74E+01	0.375
65	1	305	9.402E+01	2.366E-01	1.705E-01	-4.499E-03	-8.842E-01	-2.990E-01	-2.30E+03	-3.59E+02	-3.74E+01	0.375
			-9.402E+01	-1.308E-01	-1.705E-01	4.499E-03	3.153E-02	1.218E+00	-2.30E+03	1.28E+01	1.52E+02	0.343
		306	-9.402E+01	-2.488E-02	-1.705E-01	4.499E-03	-8.211E-01	1.607E+00	-2.30E+03	-3.34E+02	2.01E+02	0.394
66	1	306	9.405E+01	-3.211E-02	-1.565E-01	-1.558E-03	8.170E-01	-1.609E+00	-2.31E+03	3.32E+02	-2.01E+02	0.394
			-9.405E+01	1.380E-01	1.565E-01	1.558E-03	-3.444E-02	1.184E+00	-2.31E+03	-1.40E+01	1.48E+02	0.343
		307	-9.405E+01	2.439E-01	1.565E-01	1.558E-03	7.482E-01	2.296E-01	-2.31E+03	3.04E+02	2.87E+01	0.366
67	1	307	6.274E+01	1.732E-01	1.271E-01	-7.791E-03	-7.238E-01	-2.358E-01	-1.54E+03	-2.94E+02	-2.95E+01	0.258
			-6.274E+01	-6.736E-02	-1.271E-01	7.791E-03	8.830E-02	8.373E-01	-1.54E+03	3.59E+01	1.05E+02	0.233
		308	-6.274E+01	3.852E-02	-1.271E-01	7.791E-03	-5.472E-01	9.093E-01	-1.54E+03	-2.22E+02	1.14E+02	0.260
68	1	308	6.282E+01	1.891E-02	-8.809E-02	-8.694E-03	5.361E-01	-9.174E-01	-1.54E+03	2.18E+02	-1.15E+02	0.260
			-6.282E+01	8.697E-02	8.809E-02	8.694E-03	-9.564E-02	7.472E-01	-1.54E+03	-3.89E+01	9.34E+01	0.232
		309	-6.282E+01	1.928E-01	8.809E-02	8.694E-03	3.448E-01	4.769E-02	-1.54E+03	1.40E+02	5.96E+00	0.234
69	1	309	5.829E-02	3.873E-02	3.899E-02	-1.770E-02	-2.890E-01	-5.777E-02	-1.43E+00	-1.17E+02	-7.22E+00	0.018
			-5.829E-02	6.715E-02	-3.899E-02	1.770E-02	9.407E-02	-1.327E-02	-1.43E+00	3.82E+01	-1.66E+00	0.006
		310	-5.829E-02	1.730E-01	-3.899E-02	1.770E-02	-1.009E-01	-6.137E-01	-1.43E+00	-4.10E+01	-7.67E+01	0.017

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70	1	320	8.916E-02	1.551E-01	-3.981E-02	1.332E-03	1.051E-01	5.194E-01	-2.19E+00	4.27E+01	6.49E+01	0.015
			-8.916E-02	-4.925E-02	3.981E-02	-1.332E-03	9.392E-02	-8.461E-03	-2.19E+00	3.82E+01	-1.06E+00	0.006
		321	-8.916E-02	5.663E-02	3.981E-02	-1.332E-03	2.930E-01	-2.692E-02	-2.19E+00	1.19E+02	-3.37E+00	0.017
71	1	321	5.465E+01	1.906E-01	8.944E-02	7.692E-03	-3.537E-01	2.542E-02	-1.34E+03	-1.44E+02	3.18E+00	0.206
			-5.465E+01	-8.468E-02	-8.944E-02	-7.692E-03	-9.350E-02	6.627E-01	-1.34E+03	-3.80E+01	8.28E+01	0.203
		322	-5.465E+01	2.119E-02	-8.944E-02	-7.692E-03	-5.407E-01	8.214E-01	-1.34E+03	-2.20E+02	1.03E+02	0.231
72	1	322	5.465E+01	3.470E-02	-1.282E-01	7.692E-03	5.530E-01	-8.297E-01	-1.34E+03	2.25E+02	-1.04E+02	0.232
			-5.465E+01	7.117E-02	1.282E-01	-7.692E-03	8.792E-02	7.385E-01	-1.34E+03	3.57E+01	9.23E+01	0.204
		323	-5.465E+01	1.771E-01	1.282E-01	-7.692E-03	7.289E-01	1.180E-01	-1.34E+03	2.96E+02	1.47E+01	0.229
73	1	323	8.187E+01	2.369E-01	1.576E-01	3.138E-03	-7.537E-01	-1.221E-01	-2.01E+03	-3.06E+02	-1.53E+01	0.323
			-8.187E+01	-1.310E-01	-1.576E-01	-3.138E-03	-3.432E-02	1.042E+00	-2.01E+03	-1.39E+01	1.30E+02	0.299
		324	-8.187E+01	-2.517E-02	-1.576E-01	-3.138E-03	-8.223E-01	1.433E+00	-2.01E+03	-3.34E+02	1.79E+02	0.350
74	1	324	8.187E+01	-2.001E-02	-1.717E-01	3.138E-03	8.268E-01	-1.436E+00	-2.01E+03	3.36E+02	-1.79E+02	0.350
			-8.187E+01	1.259E-01	1.717E-01	-3.138E-03	3.161E-02	1.071E+00	-2.01E+03	1.28E+01	1.34E+02	0.299
		325	-8.187E+01	2.318E-01	1.717E-01	-3.138E-03	8.900E-01	1.769E-01	-2.01E+03	3.62E+02	2.21E+01	0.332
75	1	325	8.187E+01	2.318E-01	1.717E-01	-3.138E-03	-8.900E-01	-1.769E-01	-2.01E+03	-3.62E+02	-2.21E+01	0.332
			-8.187E+01	-1.259E-01	-1.717E-01	3.138E-03	3.161E-02	1.071E+00	-2.01E+03	1.28E+01	1.34E+02	0.299
		326	-8.187E+01	-2.001E-02	-1.717E-01	3.138E-03	-8.268E-01	1.436E+00	-2.01E+03	-3.36E+02	1.79E+02	0.350
76	1	326	8.187E+01	-2.517E-02	-1.576E-01	-3.138E-03	8.223E-01	-1.433E+00	-2.01E+03	3.34E+02	-1.79E+02	0.350
			-8.187E+01	1.310E-01	1.576E-01	3.138E-03	-3.432E-02	1.042E+00	-2.01E+03	-1.39E+01	1.30E+02	0.299
		327	-8.187E+01	2.369E-01	1.576E-01	3.138E-03	7.537E-01	1.221E-01	-2.01E+03	3.06E+02	1.53E+01	0.323
77	1	327	5.465E+01	1.771E-01	1.282E-01	-7.692E-03	-7.289E-01	-1.180E-01	-1.34E+03	-2.96E+02	-1.47E+01	0.229
			-5.465E+01	-7.117E-02	-1.282E-01	7.692E-03	8.792E-02	7.385E-01	-1.34E+03	3.57E+01	9.23E+01	0.204
		328	-5.465E+01	3.470E-02	-1.282E-01	7.692E-03	-5.530E-01	8.297E-01	-1.34E+03	-2.25E+02	1.04E+02	0.232
78	1	328	5.465E+01	2.119E-02	-8.944E-02	-7.692E-03	5.407E-01	-8.214E-01	-1.34E+03	2.20E+02	-1.03E+02	0.231
			-5.465E+01	8.468E-02	8.944E-02	7.692E-03	-9.350E-02	6.627E-01	-1.34E+03	-3.80E+01	8.28E+01	0.203
		329	-5.465E+01	1.906E-01	8.944E-02	7.692E-03	3.537E-01	-2.542E-02	-1.34E+03	1.44E+02	-3.18E+00	0.206
79	1	329	8.916E-02	5.663E-02	3.981E-02	-1.332E-03	-2.930E-01	2.692E-02	-2.19E+00	-1.19E+02	3.37E+00	0.017
			-8.916E-02	4.925E-02	-3.981E-02	1.332E-03	9.392E-02	-8.461E-03	-2.19E+00	3.82E+01	-1.06E+00	0.006
		330	-8.916E-02	1.551E-01	-3.981E-02	1.332E-03	-1.051E-01	-5.194E-01	-2.19E+00	-4.27E+01	-6.49E+01	0.015
80	1	100	-3.223E+01	2.047E-01	5.298E-02	1.358E-01	-2.141E-01	6.706E-01	7.90E+02	-8.70E+01	8.38E+01	0.133
			3.223E+01	-9.879E-02	-5.298E-02	-1.358E-01	-5.078E-02	8.800E-02	7.90E+02	-2.06E+01	1.10E+01	0.114
		101	3.223E+01	7.084E-03	-5.298E-02	-1.358E-01	-3.157E-01	3.173E-01	7.90E+02	-1.28E+02	3.97E+01	0.133
81	1	101	-3.223E+01	1.355E-01	-7.592E-02	-1.462E-01	3.304E-01	-3.073E-01	7.90E+02	1.34E+02	-3.84E+01	0.134
			3.223E+01	-2.962E-02	7.592E-02	1.462E-01	4.920E-02	7.201E-01	7.90E+02	2.00E+01	9.00E+01	0.125
		102	3.223E+01	7.626E-02	7.592E-02	1.462E-01	4.288E-01	6.035E-01	7.90E+02	1.74E+02	7.54E+01	0.144
82	1	102	-7.931E+01	1.031E-01	1.322E-01	1.620E-01	-5.889E-01	-5.945E-01	1.94E+03	-2.39E+02	-7.43E+01	0.314
			7.931E+01	2.815E-03	-1.322E-01	-1.620E-01	-7.195E-02	8.451E-01	1.94E+03	-2.92E+01	1.06E+02	0.289
		103	7.931E+01	1.087E-01	-1.322E-01	-1.620E-01	-7.328E-01	5.663E-01	1.94E+03	-2.98E+02	7.08E+01	0.321
83	1	103	-7.931E+01	1.773E-01	-1.508E-01	-1.500E-01	7.459E-01	-5.602E-01	1.94E+03	3.03E+02	-7.00E+01	0.322
			7.931E+01	-7.146E-02	1.508E-01	1.500E-01	8.028E-03	1.182E+00	1.94E+03	3.26E+00	1.48E+02	0.291
		104	7.931E+01	3.442E-02	1.508E-01	1.500E-01	7.619E-01	1.275E+00	1.94E+03	3.10E+02	1.59E+02	0.335

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84	1	104	-9.499E+01	4.225E-02	1.707E-01	1.562E-01	-8.174E-01	-1.272E+00	2.33E+03	-3.32E+02	-1.59E+02	0.392
			9.499E+01	6.363E-02	-1.707E-01	-1.562E-01	-3.611E-02	1.218E+00	2.33E+03	-1.47E+01	1.52E+02	0.347
		105	9.499E+01	1.695E-01	-1.707E-01	-1.562E-01	-8.896E-01	6.356E-01	2.33E+03	-3.61E+02	7.94E+01	0.385
85	1	105	-9.499E+01	1.695E-01	-1.707E-01	-1.562E-01	8.896E-01	-6.356E-01	2.33E+03	3.61E+02	-7.94E+01	0.385
			9.499E+01	-6.363E-02	1.707E-01	1.562E-01	-3.611E-02	1.218E+00	2.33E+03	-1.47E+01	1.52E+02	0.347
		106	9.499E+01	4.225E-02	1.707E-01	1.562E-01	8.174E-01	1.272E+00	2.33E+03	3.32E+02	1.59E+02	0.392
86	1	106	-7.931E+01	3.442E-02	1.508E-01	1.500E-01	-7.619E-01	-1.275E+00	1.94E+03	-3.10E+02	-1.59E+02	0.335
			7.931E+01	7.146E-02	-1.508E-01	-1.500E-01	8.028E-03	1.182E+00	1.94E+03	3.26E+00	1.48E+02	0.291
		107	7.931E+01	1.773E-01	-1.508E-01	-1.500E-01	-7.459E-01	5.602E-01	1.94E+03	-3.03E+02	7.00E+01	0.322
87	1	107	-7.931E+01	1.087E-01	-1.322E-01	-1.620E-01	7.328E-01	-5.663E-01	1.94E+03	2.98E+02	-7.08E+01	0.321
			7.931E+01	-2.815E-03	1.322E-01	1.620E-01	-7.195E-02	8.451E-01	1.94E+03	-2.92E+01	1.06E+02	0.289
		108	7.931E+01	1.031E-01	1.322E-01	1.620E-01	5.889E-01	5.945E-01	1.94E+03	2.39E+02	7.43E+01	0.314
88	1	108	-3.223E+01	7.626E-02	7.592E-02	1.462E-01	-4.288E-01	-6.035E-01	7.90E+02	-1.74E+02	-7.54E+01	0.144
			3.223E+01	2.962E-02	-7.592E-02	-1.462E-01	4.920E-02	7.201E-01	7.90E+02	2.00E+01	9.00E+01	0.125
		109	3.223E+01	1.355E-01	-7.592E-02	-1.462E-01	-3.304E-01	3.073E-01	7.90E+02	-1.34E+02	3.84E+01	0.134
89	1	109	-3.223E+01	7.084E-03	-5.298E-02	-1.358E-01	3.157E-01	-3.173E-01	7.90E+02	1.28E+02	-3.97E+01	0.133
			3.223E+01	9.879E-02	5.298E-02	1.358E-01	-5.078E-02	8.800E-02	7.90E+02	-2.06E+01	1.10E+01	0.114
		110	3.223E+01	2.047E-01	5.298E-02	1.358E-01	2.141E-01	-6.706E-01	7.90E+02	8.70E+01	-8.38E+01	0.133
90	1	120	-2.786E+01	1.771E-01	5.562E-02	-4.665E-02	-2.190E-01	5.479E-01	6.83E+02	-8.90E+01	6.85E+01	0.117
			2.786E+01	-7.120E-02	-5.562E-02	4.665E-02	-5.914E-02	7.284E-02	6.83E+02	-2.40E+01	9.11E+00	0.099
		121	2.786E+01	3.467E-02	-5.562E-02	4.665E-02	-3.373E-01	1.642E-01	6.83E+02	-1.37E+02	2.05E+01	0.117
91	1	121	-2.780E+01	1.454E-01	-8.543E-02	1.955E-02	3.536E-01	-1.799E-01	6.81E+02	1.44E+02	-2.25E+01	0.118
			2.780E+01	-3.956E-02	8.543E-02	-1.955E-02	7.361E-02	6.424E-01	6.81E+02	2.99E+01	8.03E+01	0.110
		122	2.780E+01	6.631E-02	8.543E-02	-1.955E-02	5.008E-01	5.756E-01	6.81E+02	2.03E+02	7.19E+01	0.133
92	1	122	-6.888E+01	8.517E-02	1.244E-01	-6.227E-03	-5.234E-01	-5.839E-01	1.69E+03	-2.13E+02	-7.30E+01	0.274
			6.888E+01	2.071E-02	-1.244E-01	6.227E-03	-9.860E-02	7.450E-01	1.69E+03	-4.01E+01	9.31E+01	0.253
		123	6.888E+01	1.266E-01	-1.244E-01	6.227E-03	-7.206E-01	3.768E-01	1.69E+03	-2.93E+02	4.71E+01	0.282
93	1	123	-6.883E+01	1.850E-01	-1.517E-01	1.628E-02	7.364E-01	-3.801E-01	1.69E+03	2.99E+02	-4.75E+01	0.282
			6.883E+01	-7.909E-02	1.517E-01	-1.628E-02	2.210E-02	1.040E+00	1.69E+03	8.98E+00	1.30E+02	0.254
		124	6.883E+01	2.679E-02	1.517E-01	-1.628E-02	7.806E-01	1.171E+00	1.69E+03	3.17E+02	1.46E+02	0.299
94	1	124	-8.251E+01	3.249E-02	1.666E-01	-9.988E-03	-7.891E-01	-1.174E+00	2.02E+03	-3.21E+02	-1.47E+02	0.346
			8.251E+01	7.339E-02	-1.666E-01	9.988E-03	-4.371E-02	1.072E+00	2.02E+03	-1.78E+01	1.34E+02	0.302
		125	8.251E+01	1.793E-01	-1.666E-01	9.988E-03	-8.766E-01	4.402E-01	2.02E+03	-3.56E+02	5.50E+01	0.338
95	1	125	-8.251E+01	1.793E-01	-1.666E-01	9.988E-03	8.766E-01	-4.402E-01	2.02E+03	3.56E+02	-5.50E+01	-0.338
			8.251E+01	-7.339E-02	1.666E-01	-9.988E-03	-4.371E-02	1.072E+00	2.02E+03	-1.78E+01	1.34E+02	0.302
		126	8.251E+01	3.249E-02	1.666E-01	-9.988E-03	7.891E-01	1.174E+00	2.02E+03	3.21E+02	1.47E+02	0.346
96	1	126	-6.883E+01	2.679E-02	1.517E-01	-1.628E-02	-7.806E-01	-1.171E+00	1.69E+03	-3.17E+02	-1.46E+02	0.299
			6.883E+01	7.909E-02	-1.517E-01	1.628E-02	2.210E-02	1.040E+00	1.69E+03	8.98E+00	1.30E+02	0.254
		127	6.883E+01	1.850E-01	-1.517E-01	1.628E-02	-7.364E-01	3.801E-01	1.69E+03	-2.99E+02	4.75E+01	0.282
97	1	127	-6.888E+01	1.266E-01	-1.244E-01	6.227E-03	7.206E-01	-3.768E-01	1.69E+03	2.93E+02	-4.71E+01	0.282
			6.888E+01	-2.071E-02	1.244E-01	-6.227E-03	-9.860E-02	7.450E-01	1.69E+03	-4.01E+01	9.31E+01	0.253
		128	6.888E+01	8.517E-02	1.244E-01	-6.227E-03	5.234E-01	5.839E-01	1.69E+03	2.13E+02	7.30E+01	0.274
98	1	128	-2.780E+01	6.631E-02	8.543E-02	-1.955E-02	-5.008E-01	-5.756E-01	6.81E+02	-2.03E+02	-7.19E+01	0.133

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			2.780E+01	3.956E-02	-8.543E-02	1.955E-02	7.361E-02	6.424E-01	6.81E+02	2.99E+01	8.03E+01	0.110
		129	2.780E+01	1.454E-01	-8.543E-02	1.955E-02	-3.536E-01	1.799E-01	6.81E+02	-1.44E+02	2.25E+01	0.118
99	1	129	-2.786E+01	3.467E-02	-5.562E-02	4.665E-02	3.373E-01	-1.642E-01	6.83E+02	1.37E+02	-2.05E+01	0.117
			2.786E+01	7.120E-02	5.562E-02	-4.665E-02	-5.914E-02	7.284E-02	6.83E+02	-2.40E+01	9.11E+00	0.099
		130	2.786E+01	1.771E-01	5.562E-02	-4.665E-02	2.190E-01	-5.479E-01	6.83E+02	8.90E+01	-6.85E+01	0.117
100	1	301	4.543E+01	8.045E-02	0.000E+00	1.049E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
			-4.551E+01	-8.923E-17	0.000E+00	-1.049E-02	0.000E+00	2.844E-01	-1.47E+03	0.00E+00	1.52E+02	0.225
		100	-4.559E+01	8.044E-02	0.000E+00	-1.049E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
102	1	301	-4.335E+01	8.044E-02	0.000E+00	-1.027E-02	0.000E+00	0.000E+00	1.40E+03	0.00E+00	0.00E+00	0.194
			4.327E+01	8.053E-17	0.000E+00	1.027E-02	0.000E+00	2.844E-01	1.40E+03	0.00E+00	1.52E+02	0.215
		102	4.319E+01	8.045E-02	0.000E+00	1.027E-02	0.000E+00	0.000E+00	1.39E+03	0.00E+00	0.00E+00	0.194
103	1	303	2.339E+01	5.839E-02	-5.132E-18	2.412E-02	0.000E+00	0.000E+00	-1.04E+03	0.00E+00	0.00E+00	0.144
			-2.345E+01	-1.788E-17	5.132E-18	-2.412E-02	-3.629E-17	2.064E-01	-1.04E+03	-4.57E-14	1.50E+02	0.166
		102	-2.351E+01	5.839E-02	5.132E-18	-2.412E-02	0.000E+00	0.000E+00	-1.04E+03	0.00E+00	0.00E+00	0.145
104	1	303	-2.091E+01	5.839E-02	6.470E-18	-1.420E-02	0.000E+00	0.000E+00	9.29E+02	0.00E+00	0.00E+00	0.129
			2.085E+01	-3.967E-19	-6.470E-18	1.420E-02	4.575E-17	2.064E-01	9.27E+02	5.76E-14	1.50E+02	0.150
		104	2.079E+01	5.839E-02	-6.470E-18	1.420E-02	0.000E+00	0.000E+00	9.24E+02	0.00E+00	0.00E+00	0.128
105	1	305	1.319E+00	5.839E-02	-7.165E-18	1.931E-02	0.000E+00	0.000E+00	-5.86E+01	0.00E+00	0.00E+00	0.008
			-1.377E+00	-1.001E-17	7.165E-18	-1.931E-02	-5.066E-17	2.064E-01	-6.12E+01	-6.38E-14	1.50E+02	0.029
		104	-1.436E+00	5.839E-02	7.165E-18	-1.931E-02	0.000E+00	0.000E+00	-6.38E+01	0.00E+00	0.00E+00	0.009
106	1	305	1.319E+00	5.839E-02	7.165E-18	-1.931E-02	0.000E+00	0.000E+00	-5.86E+01	0.00E+00	0.00E+00	0.008
			-1.377E+00	-1.001E-17	-7.165E-18	1.931E-02	5.066E-17	2.064E-01	-6.12E+01	6.38E-14	1.50E+02	0.029
		106	-1.436E+00	5.839E-02	-7.165E-18	1.931E-02	0.000E+00	0.000E+00	-6.38E+01	0.00E+00	0.00E+00	0.009
107	1	307	-2.091E+01	5.839E-02	-6.470E-18	1.420E-02	0.000E+00	0.000E+00	9.29E+02	0.00E+00	0.00E+00	0.129
			2.085E+01	-3.967E-19	6.470E-18	-1.420E-02	-4.575E-17	2.064E-01	9.27E+02	-5.76E-14	1.50E+02	0.150
		106	2.079E+01	5.839E-02	6.470E-18	-1.420E-02	0.000E+00	0.000E+00	9.24E+02	0.00E+00	0.00E+00	0.128
108	1	307	2.339E+01	5.839E-02	5.132E-18	-2.412E-02	0.000E+00	0.000E+00	-1.04E+03	0.00E+00	0.00E+00	0.144
			-2.345E+01	-1.788E-17	-5.132E-18	2.412E-02	3.629E-17	2.064E-01	-1.04E+03	4.57E-14	1.50E+02	0.166
		108	-2.351E+01	5.839E-02	-5.132E-18	2.412E-02	0.000E+00	0.000E+00	-1.04E+03	0.00E+00	0.00E+00	0.145
109	1	309	-4.335E+01	8.044E-02	0.000E+00	1.027E-02	0.000E+00	0.000E+00	1.40E+03	0.00E+00	0.00E+00	0.194
			4.327E+01	8.053E-17	0.000E+00	-1.027E-02	0.000E+00	2.844E-01	1.40E+03	0.00E+00	1.52E+02	0.215
		108	4.319E+01	8.045E-02	0.000E+00	-1.027E-02	0.000E+00	0.000E+00	1.39E+03	0.00E+00	0.00E+00	0.194
110	1	309	4.543E+01	8.045E-02	0.000E+00	-1.049E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
			-4.551E+01	-8.923E-17	0.000E+00	1.049E-02	0.000E+00	2.844E-01	-1.47E+03	0.00E+00	1.52E+02	0.225
		110	-4.559E+01	8.044E-02	0.000E+00	1.049E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
120	1	321	3.922E+01	8.045E-02	0.000E+00	3.679E-03	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
			-3.930E+01	-7.749E-17	0.000E+00	-3.679E-03	0.000E+00	2.844E-01	-1.27E+03	0.00E+00	1.52E+02	0.197
		120	-3.938E+01	8.044E-02	0.000E+00	-3.679E-03	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
122	1	321	-3.807E+01	8.044E-02	0.000E+00	-1.094E-02	0.000E+00	0.000E+00	1.23E+03	0.00E+00	0.00E+00	0.171
			3.799E+01	7.009E-17	0.000E+00	1.094E-02	0.000E+00	2.844E-01	1.23E+03	0.00E+00	1.52E+02	0.191
		122	3.791E+01	8.045E-02	0.000E+00	1.094E-02	0.000E+00	0.000E+00	1.22E+03	0.00E+00	0.00E+00	0.170
123	1	323	2.006E+01	5.839E-02	-5.157E-18	2.552E-02	0.000E+00	0.000E+00	-8.91E+02	0.00E+00	0.00E+00	0.124
			-2.012E+01	-1.623E-17	5.157E-18	-2.552E-02	-3.647E-17	2.064E-01	-8.94E+02	-4.59E-14	1.50E+02	0.145

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		122	-2.017E+01	5.839E-02	5.157E-18	-2.552E-02	0.000E+00	0.000E+00	-8.97E+02	0.00E+00	0.00E+00	0.125
124	1	323	-1.852E+01	5.839E-02	6.498E-18	-1.573E-02	0.000E+00	0.000E+00	8.23E+02	0.00E+00	0.00E+00	0.114
			1.846E+01	-1.020E-18	-6.498E-18	1.573E-02	4.595E-17	2.064E-01	8.20E+02	5.79E-14	1.50E+02	0.135
		124	1.840E+01	5.839E-02	-6.498E-18	1.573E-02	0.000E+00	0.000E+00	8.18E+02	0.00E+00	0.00E+00	0.114
125	1	325	8.393E-01	5.839E-02	-7.197E-18	2.142E-02	0.000E+00	0.000E+00	-3.73E+01	0.00E+00	0.00E+00	0.005
			-8.977E-01	-9.388E-18	7.197E-18	-2.142E-02	-5.089E-17	2.064E-01	-3.99E+01	-6.41E-14	1.50E+02	0.026
		124	-9.561E-01	5.839E-02	7.197E-18	-2.142E-02	0.000E+00	0.000E+00	-4.25E+01	0.00E+00	0.00E+00	0.006
126	1	325	8.393E-01	5.839E-02	7.197E-18	-2.142E-02	0.000E+00	0.000E+00	-3.73E+01	0.00E+00	0.00E+00	0.005
			-8.977E-01	-9.388E-18	-7.197E-18	2.142E-02	5.089E-17	2.064E-01	-3.99E+01	6.41E-14	1.50E+02	0.026
		126	-9.561E-01	5.839E-02	-7.197E-18	2.142E-02	0.000E+00	0.000E+00	-4.25E+01	0.00E+00	0.00E+00	0.006
127	1	327	-1.852E+01	5.839E-02	-6.498E-18	1.573E-02	0.000E+00	0.000E+00	8.23E+02	0.00E+00	0.00E+00	0.114
			1.846E+01	-1.020E-18	6.498E-18	-1.573E-02	-4.595E-17	2.064E-01	8.20E+02	-5.79E-14	1.50E+02	0.135
		126	1.840E+01	5.839E-02	6.498E-18	-1.573E-02	0.000E+00	0.000E+00	8.18E+02	0.00E+00	0.00E+00	0.114
128	1	327	2.006E+01	5.839E-02	5.157E-18	-2.552E-02	0.000E+00	0.000E+00	-8.91E+02	0.00E+00	0.00E+00	0.124
			-2.012E+01	-1.623E-17	-5.157E-18	2.552E-02	3.647E-17	2.064E-01	-8.94E+02	4.59E-14	1.50E+02	0.145
		128	-2.017E+01	5.839E-02	-5.157E-18	2.552E-02	0.000E+00	0.000E+00	-8.97E+02	0.00E+00	0.00E+00	0.125
129	1	329	-3.807E+01	8.044E-02	0.000E+00	1.094E-02	0.000E+00	0.000E+00	1.23E+03	0.00E+00	0.00E+00	0.171
			3.799E+01	7.009E-17	0.000E+00	-1.094E-02	0.000E+00	2.844E-01	1.23E+03	0.00E+00	1.52E+02	0.191
		128	3.791E+01	8.045E-02	0.000E+00	-1.094E-02	0.000E+00	0.000E+00	1.22E+03	0.00E+00	0.00E+00	0.170
130	1	329	3.922E+01	8.045E-02	0.000E+00	-3.679E-03	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
			-3.930E+01	-7.749E-17	0.000E+00	3.679E-03	0.000E+00	2.844E-01	-1.27E+03	0.00E+00	1.52E+02	0.197
		130	-3.938E+01	8.044E-02	0.000E+00	3.679E-03	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
140	1	301	-1.098E+00	-1.953E-17	-3.083E-18	2.439E-03	0.000E+00	0.000E+00	8.25E+01	0.00E+00	0.00E+00	0.011
			1.063E+00	1.953E-17	3.083E-18	-2.439E-03	-1.542E-17	9.766E-17	8.00E+01	-2.75E-14	2.37E-13	0.011
		101	1.029E+00	1.953E-17	3.083E-18	-2.439E-03	0.000E+00	0.000E+00	7.74E+01	0.00E+00	0.00E+00	0.011
141	1	303	-1.233E+00	-1.181E-17	-8.038E-18	1.513E-03	0.000E+00	0.000E+00	9.27E+01	0.00E+00	0.00E+00	0.013
			1.198E+00	1.181E-17	8.038E-18	-1.513E-03	-4.019E-17	5.903E-17	9.01E+01	-7.18E-14	1.43E-13	0.013
		103	1.164E+00	1.181E-17	8.038E-18	-1.513E-03	0.000E+00	0.000E+00	8.75E+01	0.00E+00	0.00E+00	0.012
142	1	305	-1.286E+00	1.649E-31	-9.844E-18	4.314E-16	0.000E+00	0.000E+00	9.67E+01	0.00E+00	0.00E+00	0.013
			1.251E+00	-1.649E-31	9.844E-18	-4.314E-16	-4.922E-17	-8.258E-31	9.41E+01	-8.79E-14	-2.01E-27	0.013
		105	1.217E+00	-1.649E-31	9.844E-18	-4.314E-16	0.000E+00	0.000E+00	9.15E+01	0.00E+00	0.00E+00	0.013
143	1	307	-1.233E+00	1.181E-17	-8.038E-18	-1.513E-03	0.000E+00	0.000E+00	9.27E+01	0.00E+00	0.00E+00	0.013
			1.198E+00	-1.181E-17	8.038E-18	1.513E-03	-4.019E-17	-5.903E-17	9.01E+01	-7.18E-14	-1.43E-13	0.013
		107	1.164E+00	-1.181E-17	8.038E-18	1.513E-03	0.000E+00	0.000E+00	8.75E+01	0.00E+00	0.00E+00	0.012
144	1	309	-1.098E+00	1.953E-17	-3.083E-18	-2.439E-03	0.000E+00	0.000E+00	8.25E+01	0.00E+00	0.00E+00	0.011
			1.063E+00	-1.953E-17	3.083E-18	2.439E-03	-1.542E-17	-9.766E-17	8.00E+01	-2.75E-14	-2.37E-13	0.011
		109	1.029E+00	-1.953E-17	3.083E-18	2.439E-03	0.000E+00	0.000E+00	7.74E+01	0.00E+00	0.00E+00	0.011
150	1	321	-2.874E-01	-1.698E-17	-3.098E-18	2.303E-03	0.000E+00	0.000E+00	2.16E+01	0.00E+00	0.00E+00	0.003
			2.529E-01	1.698E-17	3.098E-18	-2.303E-03	-1.549E-17	8.488E-17	1.90E+01	-2.77E-14	2.06E-13	0.003
		121	2.184E-01	1.698E-17	3.098E-18	-2.303E-03	0.000E+00	0.000E+00	1.64E+01	0.00E+00	0.00E+00	0.002
151	1	323	-4.272E-01	-1.027E-17	-8.070E-18	1.136E-03	0.000E+00	0.000E+00	3.21E+01	0.00E+00	0.00E+00	0.004
			3.927E-01	1.027E-17	8.070E-18	-1.136E-03	-4.035E-17	5.133E-17	2.95E+01	-7.21E-14	1.25E-13	0.004
		123	3.582E-01	1.027E-17	8.070E-18	-1.136E-03	0.000E+00	0.000E+00	2.69E+01	0.00E+00	0.00E+00	0.004

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152	1	325	-4.742E-01	1.556E-31	-9.882E-18	3.345E-16	0.000E+00	0.000E+00	3.57E+01	0.00E+00	0.00E+00	0.005
			4.397E-01	-1.556E-31	9.882E-18	-3.345E-16	-4.941E-17	-7.827E-31	3.31E+01	-8.82E-14	-1.90E-27	0.005
		125	4.052E-01	-1.556E-31	9.882E-18	-3.345E-16	0.000E+00	0.000E+00	3.05E+01	0.00E+00	0.00E+00	0.004
153	1	327	-4.272E-01	1.027E-17	-8.070E-18	-1.136E-03	0.000E+00	0.000E+00	3.21E+01	0.00E+00	0.00E+00	0.004
			3.927E-01	-1.027E-17	8.070E-18	1.136E-03	-4.035E-17	-5.133E-17	2.95E+01	-7.21E-14	-1.25E-13	0.004
		127	3.582E-01	-1.027E-17	8.070E-18	1.136E-03	0.000E+00	0.000E+00	2.69E+01	0.00E+00	0.00E+00	0.004
154	1	329	-2.874E-01	1.698E-17	-3.098E-18	-2.303E-03	0.000E+00	0.000E+00	2.16E+01	0.00E+00	0.00E+00	0.003
			2.529E-01	-1.698E-17	3.098E-18	2.303E-03	-1.549E-17	-8.488E-17	1.90E+01	-2.77E-14	-2.06E-13	0.003
		129	2.184E-01	-1.698E-17	3.098E-18	2.303E-03	0.000E+00	0.000E+00	1.64E+01	0.00E+00	0.00E+00	0.002
160	1	200	8.523E+00	-1.257E-01	-1.380E+00	1.208E-02	2.835E+00	2.154E-02	-2.77E+02	5.06E+02	1.20E+01	0.110
			-8.563E+00	1.257E-01	1.380E+00	-1.208E-02	6.148E-01	-3.358E-01	-2.78E+02	1.10E+02	-1.87E+02	0.080
		100	-8.603E+00	1.257E-01	1.380E+00	-1.208E-02	4.065E+00	-6.500E-01	-2.79E+02	7.26E+02	-3.61E+02	0.190
161	1	300	4.336E+00	-1.252E-01	-1.472E+00	1.021E-02	4.457E+00	-6.126E-01	-1.41E+02	7.96E+02	-3.40E+02	0.177
			-4.376E+00	1.252E-01	1.472E+00	-1.021E-02	-7.760E-01	2.994E-01	-1.42E+02	-1.39E+02	1.66E+02	0.062
		200	-4.416E+00	1.252E-01	1.472E+00	-1.021E-02	2.905E+00	-1.367E-02	-1.43E+02	5.19E+02	-7.59E+00	0.093
162	1	202	8.454E+00	6.859E-04	4.561E-06	1.114E-02	-2.280E-05	3.430E-03	-2.74E+02	-1.27E-02	6.12E-01	0.038
			-8.494E+00	-6.859E-04	-4.561E-06	-1.114E-02	1.140E-05	-1.715E-03	-2.76E+02	6.33E-03	-3.06E-01	0.038
		102	-8.534E+00	-6.859E-04	-4.561E-06	-1.114E-02	0.000E+00	0.000E+00	-2.77E+02	0.00E+00	0.00E+00	0.038
163	1	302	4.279E+00	6.859E-04	-4.561E-06	1.114E-02	0.000E+00	0.000E+00	-1.39E+02	0.00E+00	0.00E+00	0.019
			-4.319E+00	-6.859E-04	4.561E-06	-1.114E-02	1.140E-05	1.715E-03	-1.40E+02	6.33E-03	3.06E-01	0.020
		202	-4.359E+00	-6.859E-04	4.561E-06	-1.114E-02	2.280E-05	3.430E-03	-1.42E+02	1.27E-02	6.12E-01	0.020
164	1	204	8.339E+00	2.567E-04	6.449E-06	4.065E-03	-3.225E-05	1.283E-03	-2.71E+02	-1.79E-02	2.29E-01	0.038
			-8.379E+00	-2.567E-04	-6.449E-06	-4.065E-03	1.612E-05	-6.417E-04	-2.72E+02	8.96E-03	-1.15E-01	0.038
		104	-8.419E+00	-2.567E-04	-6.449E-06	-4.065E-03	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
165	1	304	4.165E+00	2.567E-04	-6.449E-06	4.065E-03	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
			-4.205E+00	-2.567E-04	6.449E-06	-4.065E-03	1.612E-05	6.417E-04	-1.37E+02	8.96E-03	1.15E-01	0.019
		204	-4.245E+00	-2.567E-04	6.449E-06	-4.065E-03	3.225E-05	1.283E-03	-1.38E+02	1.79E-02	2.29E-01	0.019
166	1	206	8.339E+00	-2.567E-04	6.449E-06	-4.065E-03	-3.225E-05	-1.283E-03	-2.71E+02	-1.79E-02	-2.29E-01	0.038
			-8.379E+00	2.567E-04	-6.449E-06	4.065E-03	1.612E-05	6.417E-04	-2.72E+02	8.96E-03	1.15E-01	0.038
		106	-8.419E+00	2.567E-04	-6.449E-06	4.065E-03	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
167	1	306	4.165E+00	-2.567E-04	-6.449E-06	-4.065E-03	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
			-4.205E+00	2.567E-04	6.449E-06	4.065E-03	1.612E-05	-6.417E-04	-1.37E+02	8.96E-03	-1.15E-01	0.019
		206	-4.245E+00	2.567E-04	6.449E-06	4.065E-03	3.225E-05	-1.283E-03	-1.38E+02	1.79E-02	-2.29E-01	0.019
168	1	208	8.454E+00	-6.859E-04	4.561E-06	-1.114E-02	-2.280E-05	-3.430E-03	-2.74E+02	-1.27E-02	-6.12E-01	0.038
			-8.494E+00	6.859E-04	-4.561E-06	1.114E-02	1.140E-05	1.715E-03	-2.76E+02	6.33E-03	3.06E-01	0.038
		108	-8.534E+00	6.859E-04	-4.561E-06	1.114E-02	0.000E+00	0.000E+00	-2.77E+02	0.00E+00	0.00E+00	0.038
169	1	308	4.279E+00	-6.859E-04	-4.561E-06	-1.114E-02	0.000E+00	0.000E+00	-1.39E+02	0.00E+00	0.00E+00	0.019
			-4.319E+00	6.859E-04	4.561E-06	1.114E-02	1.140E-05	-1.715E-03	-1.40E+02	6.33E-03	-3.06E-01	0.020
		208	-4.359E+00	6.859E-04	4.561E-06	1.114E-02	2.280E-05	-3.430E-03	-1.42E+02	1.27E-02	-6.12E-01	0.020
170	1	210	8.523E+00	1.257E-01	-1.380E+00	-1.208E-02	2.835E+00	-2.154E-02	-2.77E+02	5.06E+02	-1.20E+01	0.110
			-8.563E+00	-1.257E-01	1.380E+00	1.208E-02	6.148E-01	3.358E-01	-2.78E+02	1.10E+02	1.87E+02	0.080
		110	-8.603E+00	-1.257E-01	1.380E+00	1.208E-02	4.065E+00	6.500E-01	-2.79E+02	7.26E+02	3.61E+02	0.190

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171	1	310	4.336E+00	1.252E-01	-1.472E+00	-1.021E-02	4.457E+00	6.126E-01	-1.41E+02	7.96E+02	3.40E+02	0.177
			-4.376E+00	-1.252E-01	1.472E+00	1.021E-02	-7.760E-01	-2.994E-01	-1.42E+02	-1.39E+02	-1.66E+02	0.062
		210	-4.416E+00	-1.252E-01	1.472E+00	1.021E-02	2.905E+00	1.367E-02	-1.43E+02	5.19E+02	7.59E+00	0.093
180	1	220	8.406E+00	-1.093E-01	1.380E+00	1.256E-02	-2.702E+00	1.156E-02	-2.73E+02	-4.83E+02	6.42E+00	0.106
			-8.446E+00	1.093E-01	-1.380E+00	-1.256E-02	-7.480E-01	-2.849E-01	-2.74E+02	-1.34E+02	-1.58E+02	0.079
		120	-8.486E+00	1.093E-01	-1.380E+00	-1.256E-02	-4.198E+00	-5.581E-01	-2.76E+02	-7.50E+02	-3.10E+02	0.185
181	1	320	4.244E+00	-1.098E-01	1.472E+00	1.044E-02	-4.441E+00	-5.294E-01	-1.38E+02	-7.93E+02	-2.94E+02	0.170
			-4.284E+00	1.098E-01	-1.472E+00	-1.044E-02	7.604E-01	2.550E-01	-1.39E+02	1.36E+02	1.42E+02	0.058
		220	-4.324E+00	1.098E-01	-1.472E+00	-1.044E-02	-2.920E+00	-1.943E-02	-1.40E+02	-5.21E+02	-1.08E+01	0.093
182	1	222	8.324E+00	-6.859E-04	-4.561E-06	1.235E-02	2.280E-05	-3.430E-03	-2.70E+02	1.27E-02	-6.12E-01	0.038
			-8.364E+00	6.859E-04	4.561E-06	-1.235E-02	-1.140E-05	1.715E-03	-2.72E+02	-6.33E-03	3.06E-01	0.038
		122	-8.404E+00	6.859E-04	4.561E-06	-1.235E-02	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
183	1	322	4.150E+00	-6.859E-04	4.561E-06	1.235E-02	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
			-4.190E+00	6.859E-04	-4.561E-06	-1.235E-02	-1.140E-05	-1.715E-03	-1.36E+02	-6.33E-03	-3.06E-01	0.019
		222	-4.230E+00	6.859E-04	-4.561E-06	-1.235E-02	-2.280E-05	-3.430E-03	-1.37E+02	-1.27E-02	-6.12E-01	0.019
184	1	224	8.223E+00	-2.567E-04	-6.449E-06	4.526E-03	3.225E-05	-1.283E-03	-2.67E+02	1.79E-02	-2.29E-01	0.037
			-8.263E+00	2.567E-04	6.449E-06	-4.526E-03	-1.612E-05	6.417E-04	-2.68E+02	-8.96E-03	1.15E-01	0.037
		124	-8.303E+00	2.567E-04	6.449E-06	-4.526E-03	0.000E+00	0.000E+00	-2.70E+02	0.00E+00	0.00E+00	0.037
185	1	324	4.049E+00	-2.567E-04	6.449E-06	4.526E-03	0.000E+00	0.000E+00	-1.31E+02	0.00E+00	0.00E+00	0.018
			-4.089E+00	2.567E-04	-6.449E-06	-4.526E-03	-1.612E-05	-6.417E-04	-1.33E+02	-8.96E-03	-1.15E-01	0.018
		224	-4.129E+00	2.567E-04	-6.449E-06	-4.526E-03	-3.225E-05	-1.283E-03	-1.34E+02	-1.79E-02	-2.29E-01	0.019
186	1	226	8.223E+00	2.567E-04	-6.449E-06	-4.526E-03	3.225E-05	1.283E-03	-2.67E+02	1.79E-02	2.29E-01	0.037
			-8.263E+00	-2.567E-04	6.449E-06	4.526E-03	-1.612E-05	-6.417E-04	-2.68E+02	-8.96E-03	-1.15E-01	0.037
		126	-8.303E+00	-2.567E-04	6.449E-06	4.526E-03	0.000E+00	0.000E+00	-2.70E+02	0.00E+00	0.00E+00	0.037
187	1	326	4.049E+00	2.567E-04	6.449E-06	-4.526E-03	0.000E+00	0.000E+00	-1.31E+02	0.00E+00	0.00E+00	0.018
			-4.089E+00	-2.567E-04	-6.449E-06	4.526E-03	-1.612E-05	6.417E-04	-1.33E+02	-8.96E-03	1.15E-01	0.018
		226	-4.129E+00	-2.567E-04	-6.449E-06	4.526E-03	-3.225E-05	1.283E-03	-1.34E+02	-1.79E-02	2.29E-01	0.019
188	1	228	8.324E+00	6.859E-04	-4.561E-06	-1.235E-02	2.280E-05	3.430E-03	-2.70E+02	1.27E-02	6.12E-01	0.038
			-8.364E+00	-6.859E-04	4.561E-06	1.235E-02	-1.140E-05	-1.715E-03	-2.72E+02	-6.33E-03	-3.06E-01	0.038
		128	-8.404E+00	-6.859E-04	4.561E-06	1.235E-02	0.000E+00	0.000E+00	-2.73E+02	0.00E+00	0.00E+00	0.038
189	1	328	4.150E+00	6.859E-04	4.561E-06	-1.235E-02	0.000E+00	0.000E+00	-1.35E+02	0.00E+00	0.00E+00	0.019
			-4.190E+00	-6.859E-04	-4.561E-06	1.235E-02	-1.140E-05	1.715E-03	-1.36E+02	-6.33E-03	3.06E-01	0.019
		228	-4.230E+00	-6.859E-04	-4.561E-06	1.235E-02	-2.280E-05	3.430E-03	-1.37E+02	-1.27E-02	6.12E-01	0.019
190	1	230	8.406E+00	1.093E-01	1.380E+00	-1.256E-02	-2.702E+00	-1.156E-02	-2.73E+02	-4.83E+02	-6.42E+00	0.106
			-8.446E+00	-1.093E-01	-1.380E+00	1.256E-02	-7.480E-01	2.849E-01	-2.74E+02	-1.34E+02	1.58E+02	0.079
		130	-8.486E+00	-1.093E-01	-1.380E+00	1.256E-02	-4.198E+00	5.581E-01	-2.76E+02	-7.50E+02	3.10E+02	0.185
191	1	330	4.244E+00	1.098E-01	1.472E+00	-1.044E-02	-4.441E+00	5.294E-01	-1.38E+02	-7.93E+02	2.94E+02	0.170
			-4.284E+00	-1.098E-01	-1.472E+00	1.044E-02	7.604E-01	-2.550E-01	-1.39E+02	1.36E+02	-1.42E+02	0.058
		230	-4.324E+00	-1.098E-01	-1.472E+00	1.044E-02	-2.920E+00	1.943E-02	-1.40E+02	-5.21E+02	1.08E+01	0.093

C-27/27

WINZLER & KELLY
CONSULTING ENGINEERS
417 Montgomery St., Suite 600
San Francisco, CA 94104-1115
(415) 283-4970

By L. Lewis Date 9/09 Client Port of Portland Sheet No. D1 of 76

Subject T4 Utilities Bridge Job No. 1086409002

D Seismic Analysis

WINZLER & KELLY
417 Montgomery St., Suite 700
San Francisco, CA 94104
(415) 283-4970

By L. Lewis Date 9/09 Client Port of Portland Sheet No. D2 of 76

Subject T4 Utilities Bridge Job No. 1086409002

Seismic

Seismic Analysis Response Spectrum was modified for allowable stress design & $R/I = 1.5$

Modifier $= \frac{.7}{1.5} = .47$ Gravity Load = 170.8k

Response Spectrum Analysis Results $V_x = 28.1$ k V_z 31.7k

$C_s = \frac{.59}{1.5} \times .7 = .28$

Since the analysis shears were less than 85% of 0.28 × 170.8, the response spectrum modifier was increased to obtain the 85% shear.

$= .85 \times 47.8$ k $= 40.6$k

Final Analysis

$V_x = 40.5$k $V_z = 40.3$k $\cong 40.6$k OK

V 3/76

Bridge Seismic Analysis

(1+0.14Sds) D + .7 ρ Qe

popbre.in

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AHALF
AHEAD  POP T4 Pipe Bridge
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                 -----------> X-DIR Centerline Bridge
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 V
AHEAD               Z-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________________
* LOADS DEFINITION
*_____________________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)
BLOAD    2    0 Walkway Dead Load
*
BWATR   -Y   -100.0     0.064        1.       32.2        1.
*
*_____________________________________________________________
* NODES DEFINITION
*_____________________________________________________________
*  Bottom Truss Nodes
CNODE  100    -50.00     -5.00     -4.50
CNODE  101    -40.00     -5.00     -4.50
CNODE  102    -30.00     -5.00     -4.50
CNODE  103    -20.00     -5.00     -4.50
CNODE  104    -10.00     -5.00     -4.50
CNODE  105      0.00     -5.00     -4.50
CNODE  106     10.00     -5.00     -4.50
CNODE  107     20.00     -5.00     -4.50
CNODE  108     30.00     -5.00     -4.50
CNODE  109     40.00     -5.00     -4.50
CNODE  110     50.00     -5.00     -4.50
CNODE  120    -50.00     -5.00      4.50
CNODE  121    -40.00     -5.00      4.50
CNODE  122    -30.00     -5.00      4.50
CNODE  123    -20.00     -5.00      4.50
CNODE  124    -10.00     -5.00      4.50
CNODE  125      0.00     -5.00      4.50
CNODE  126     10.00     -5.00      4.50
CNODE  127     20.00     -5.00      4.50
CNODE  128     30.00     -5.00      4.50
CNODE  129     40.00     -5.00      4.50
CNODE  130     50.00     -5.00      4.50
CNODE  200    -50.00      0.00     -4.50
CNODE  202    -30.00      0.00     -4.50
CNODE  204    -10.00      0.00     -4.50
CNODE  206     10.00      0.00     -4.50
CNODE  208     30.00      0.00     -4.50
CNODE  210     50.00      0.00     -4.50
CNODE  220    -50.00      0.00      4.50
CNODE  222    -30.00      0.00      4.50
CNODE  224    -10.00      0.00      4.50
CNODE  226     10.00      0.00      4.50
CNODE  228     30.00      0.00      4.50
CNODE  230     50.00      0.00      4.50
CNODE  300    -50.00      5.00     -4.50
CNODE  301    -40.00      5.00     -4.50
CNODE  302    -30.00      5.00     -4.50
CNODE  303    -20.00      5.00     -4.50
CNODE  304    -10.00      5.00     -4.50
CNODE  305      0.00      5.00     -4.50
CNODE  306     10.00      5.00     -4.50
CNODE  307     20.00      5.00     -4.50
CNODE  308     30.00      5.00     -4.50
CNODE  309     40.00      5.00     -4.50
CNODE  310     50.00      5.00     -4.50
CNODE  320    -50.00      5.00      4.50
CNODE  321    -40.00      5.00      4.50
```

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```
CNODE  322    -30.00      5.00      4.50
CNODE  323    -20.00      5.00      4.50
CNODE  324    -10.00      5.00      4.50
CNODE  325      0.00      5.00      4.50
CNODE  326     10.00      5.00      4.50
CNODE  327     20.00      5.00      4.50
CNODE  328     30.00      5.00      4.50
CNODE  329     40.00      5.00      4.50
CNODE  330     50.00      5.00      4.50
CNODE  351    -50.00      5.00     -2.25
CNODE  352    -30.00      5.00     -2.25
CNODE  354    -10.00      5.00     -2.25
CNODE  356     10.00      5.00     -2.25
CNODE  358     30.00      5.00     -2.25
CNODE  360     50.00      5.00     -2.25
CNODE  361    -50.00      5.00      0.00
CNODE  362    -30.00      5.00      0.00
CNODE  364    -10.00      5.00      0.00
CNODE  366     10.00      5.00      0.00
CNODE  368     30.00      5.00      0.00
CNODE  370     50.00      5.00      0.00
CNODE  371    -50.00      5.00      2.25
CNODE  372    -30.00      5.00      2.25
CNODE  374    -10.00      5.00      2.25
CNODE  376     10.00      5.00      2.25
CNODE  378     30.00      5.00      2.25
CNODE  380     50.00      5.00      2.25
CNODE  400    -50.00     -5.00     -2.25
CNODE  402    -30.00     -5.00     -2.25
CNODE  404    -10.00     -5.00     -2.25
CNODE  406     10.00     -5.00     -2.25
CNODE  408     30.00     -5.00     -2.25
CNODE  410     50.00     -5.00     -2.25
CNODE  500    -50.00     -5.00      0.00
CNODE  502    -30.00     -5.00      0.00
CNODE  504    -10.00     -5.00      0.00
CNODE  506     10.00     -5.00      0.00
CNODE  508     30.00     -5.00      0.00
CNODE  510     50.00     -5.00      0.00
CNODE  600    -50.00     -5.00      2.25
CNODE  602    -30.00     -5.00      2.25
CNODE  604    -10.00     -5.00      2.25
CNODE  606     10.00     -5.00      2.25
CNODE  608     30.00     -5.00      2.25
CNODE  610     50.00     -5.00      2.25
CNODE  700    -50.00      0.00     -2.25
CNODE  702    -30.00      0.00     -2.25
CNODE  704    -10.00      0.00     -2.25
CNODE  706     10.00      0.00     -2.25
CNODE  708     30.00      0.00     -2.25
CNODE  710     50.00      0.00     -2.25
CNODE  800    -50.00      0.00      0.00
CNODE  802    -30.00      0.00      0.00
CNODE  804    -10.00      0.00      0.00
CNODE  806     10.00      0.00      0.00
CNODE  808     30.00      0.00      0.00
CNODE  810     50.00      0.00      0.00
CNODE  900    -50.00      0.00      2.25
CNODE  902    -30.00      0.00      2.25
CNODE  904    -10.00      0.00      2.25
CNODE  906     10.00      0.00      2.25
CNODE  908     30.00      0.00      2.25
CNODE  910     50.00      0.00      2.25
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX   100    0    2    2    0    0    0
DFIX   110    2    2    2    0    0    0
DFIX   120    0    2    0    0    0    0
DFIX   130    0    2    0    0    0    0
*
*_____________________________________________
* MATERIAL PROPERTIES
*_____________________________________________
EBEAM BRIDGE
* MATERIAL          E    POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.      0.30     0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.      0.30     22.30    7200.0
*
*_____________________________________________
```

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```
* MEMBER PROPERTIES
*
*                    Ax        Ay        Az        Ix        Iy        Iz    dy    dz
* WT5x11 section (strong axis = z axis) vert diagonal
EBSEC    3     .0225     0.395     0.639    0.0001   0.00027   0.00033 0.34 0.24
*
* W6x20 section (strong axis = z axis) support beams, chords
EBSEC    1    0.0408     0.260     0.750    0.0001   0.00064    0.0020 0.26 0.25
*
* W 6x15 section (strong axis = y axis)vertical braces at support beams
EBSEC    2    0.0308     0.340     0.680    0.0001    0.0014   0.00045 0.25 0.25
*
* WT4x6.5 section (strong axis = z axis)vertical braces
EBSEC    4    0.0133     0.520     0.520    0.0001   0.00014   0.00007 0.25 0.17
*
* WT4x9  section (strong axis = y axis)horiz braces
EBSEC    6    0.0183     0.660     0.400    0.0001   0.00020   0.00019 0.22 0.27
*
* WT4x6.5 section (strong axis = y axis)
EBSEC    5    0.0133     0.520     0.520    0.0001   0.00007   0.00014 0.17 0.25
*
* W 6x15 section (strong axis = z axis)vertical braces at support beams
EBSEC    7    0.0308     0.680     0.340    0.0001   0.00045   0.00140 0.25 0.25
*
* WT5x15  section (strong axis = z axis)vertical braces
EBSEC    8    0.0310     0.360     0.660    0.0001   0.00040   0.00045 0.34 0.24
*
* W6x12  section (strong axis = z axis)bottom horiz braces
EBSEC    9    0.0250     0.420     0.560    0.0001   0.00010   0.00011 0.25 0.17
*
* Uniform Member Loads
*
* Operational Loading #1
*EBFGG   45 0.50  0.0                        -273.000
*
* MEMBER DEFINITIONS
*
*
EBMEM    1  100  121        1    6    0    000011    000011
EBMEM    2  102  121        1    6    0    000011    000011
EBMEM    3  102  123        1    6    0    000011    000011
EBMEM    4  104  123        1    6    0    000011    000011
EBMEM    5  104  125        1    6    0    000011    000011
EBMEM    6  106  125        1    6    0    000011    000011
EBMEM    7  106  127        1    6    0    000011    000011
EBMEM    8  108  127        1    6    0    000011    000011
EBMEM    9  108  129        1    6    0    000011    000011
EBMEM   10  110  129        1    6    0    000011    000011
EBMEM   11  300  321        1    6    0    000011    000011
EBMEM   12  302  321        1    6    0    000011    000011
EBMEM   13  302  323        1    6    0    000011    000011
EBMEM   14  304  323        1    6    0    000011    000011
EBMEM   15  304  325        1    6    0    000011    000011
EBMEM   16  306  325        1    6    0    000011    000011
EBMEM   17  306  327        1    6    0    000011    000011
EBMEM   18  308  327        1    6    0    000011    000011
EBMEM   19  308  329        1    6    0    000011    000011
EBMEM   20  310  329        1    6    0    000011    000011
EBMEM   21  100  400        2    1    0    000000    000000
EBMEM   22  102  402        2    1    0    000000    000000
EBMEM   23  104  404        2    1    0    000000    000000
EBMEM   24  106  406        2    1    0    000000    000000
EBMEM   25  108  408        2    1    0    000000    000000
EBMEM   26  110  410        2    1    0    000000    000000
EBMEM  210  400  500        2    1    0    000000    000000
EBMEM  220  402  502        2    1    0    000000    000000
EBMEM  230  404  504        2    1    0    000000    000000
EBMEM  240  406  506        2    1    0    000000    000000
EBMEM  250  408  508        2    1    0    000000    000000
EBMEM  260  410  510        2    1    0    000000    000000
EBMEM  211  500  600        2    1    0    000000    000000
EBMEM  221  502  602        2    1    0    000000    000000
EBMEM  231  504  604        2    1    0    000000    000000
EBMEM  241  506  606        2    1    0    000000    000000
EBMEM  251  508  608        2    1    0    000000    000000
EBMEM  261  510  610        2    1    0    000000    000000
EBMEM  212  600  120        2    1    0    000000    000000
EBMEM  222  602  122        2    1    0    000000    000011
EBMEM  232  604  124        2    1    0    000000    000011
EBMEM  242  606  126        2    1    0    000000    000011
EBMEM  252  608  128        2    1    0    000000    000011
EBMEM  262  610  130        2    1    0    000000    000000
EBMEM   31  300  351        2    1    0    000000    000000
EBMEM   32  302  352        2    1    0    000011    000000
```

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EBMEM	33	304	354	2	1	0	000011	000000
EBMEM	34	306	356	2	1	0	000011	000000
EBMEM	35	308	358	2	1	0	000011	000000
EBMEM	36	310	360	2	1	0	000000	000000
EBMEM	310	351	361	2	1	0	000000	000000
EBMEM	320	352	362	2	1	0	000000	000000
EBMEM	330	354	364	2	1	0	000000	000000
EBMEM	340	356	366	2	1	0	000000	000000
EBMEM	350	358	368	2	1	0	000000	000000
EBMEM	360	360	370	2	1	0	000000	000000
EBMEM	311	361	371	2	1	0	000000	000000
EBMEM	321	362	372	2	1	0	000000	000000
EBMEM	331	364	374	2	1	0	000000	000000
EBMEM	341	366	376	2	1	0	000000	000000
EBMEM	351	368	378	2	1	0	000000	000000
EBMEM	361	370	380	2	1	0	000000	000000
EBMEM	312	371	320	2	1	0	000000	000000
EBMEM	322	372	322	2	1	0	000000	000011
EBMEM	332	374	324	2	1	0	000000	000011
EBMEM	342	376	326	2	1	0	000000	000011
EBMEM	352	378	328	2	1	0	000000	000011
EBMEM	362	380	330	2	1	0	000000	000000
EBMEM	41	200	700	2	1	0	000000	000000
EBMEM	42	202	702	2	1	0	000011	000000
EBMEM	43	204	704	2	1	0	000011	000000
EBMEM	44	206	706	2	1	0	000011	000000
EBMEM	45	208	708	2	1	0	000011	000000
EBMEM	46	210	710	2	1	0	000000	000000
EBMEM	410	700	800	2	1	0	000000	000000
EBMEM	420	702	802	2	1	0	000000	000000
EBMEM	430	704	804	2	1	0	000000	000000
EBMEM	440	706	806	2	1	0	000000	000000
EBMEM	450	708	808	2	1	0	000000	000000
EBMEM	460	710	810	2	1	0	000000	000000
EBMEM	411	800	900	2	1	0	000000	000000
EBMEM	421	802	902	2	1	0	000000	000000
EBMEM	431	804	904	2	1	0	000000	000000
EBMEM	441	806	906	2	1	0	000000	000000
EBMEM	451	808	908	2	1	0	000000	000000
EBMEM	461	810	910	2	1	0	000000	000000
EBMEM	412	900	220	2	1	0	000000	000000
EBMEM	422	902	222	2	1	0	000000	000011
EBMEM	432	904	224	2	1	0	000000	000011
EBMEM	442	906	226	2	1	0	000000	000011
EBMEM	452	908	228	2	1	0	000000	000011
EBMEM	462	910	230	2	1	0	000000	000000
EBMEM	50	101	121	1	9	0	000000	000000
EBMEM	51	103	123	1	9	0	000000	000000
EBMEM	52	105	125	1	9	0	000000	000000
EBMEM	53	107	127	1	9	0	000000	000000
EBMEM	54	109	129	1	9	0	000000	000000
EBMEM	55	301	321	1	5	0	000000	000000
EBMEM	56	303	323	1	5	0	000000	000000
EBMEM	57	305	325	1	5	0	000000	000000
EBMEM	58	307	327	1	5	0	000000	000000
EBMEM	59	309	329	1	5	0	000000	000000
EBMEM	60	300	301	1	1	0	000000	000000
EBMEM	61	301	302	1	1	0	000000	000000
EBMEM	62	302	303	1	1	0	000000	000000
EBMEM	63	303	304	1	1	0	000000	000000
EBMEM	64	304	305	1	1	0	000000	000000
EBMEM	65	305	306	1	1	0	000000	000000
EBMEM	66	306	307	1	1	0	000000	000000
EBMEM	67	307	308	1	1	0	000000	000000
EBMEM	68	308	309	1	1	0	000000	000000
EBMEM	69	309	310	1	1	0	000000	000000
EBMEM	70	320	321	1	1	0	000000	000000
EBMEM	71	321	322	1	1	0	000000	000000
EBMEM	72	322	323	1	1	0	000000	000000
EBMEM	73	323	324	1	1	0	000000	000000
EBMEM	74	324	325	1	1	0	000000	000000
EBMEM	75	325	326	1	1	0	000000	000000
EBMEM	76	326	327	1	1	0	000000	000000
EBMEM	77	327	328	1	1	0	000000	000000
EBMEM	78	328	329	1	1	0	000000	000000
EBMEM	79	329	330	1	1	0	000000	000000
EBMEM	80	100	101	1	1	0	000000	000000
EBMEM	81	101	102	1	1	0	000000	000000
EBMEM	82	102	103	1	1	0	000000	000000
EBMEM	83	103	104	1	1	0	000000	000000
EBMEM	84	104	105	1	1	0	000000	000000
EBMEM	85	105	106	1	1	0	000000	000000
EBMEM	86	106	107	1	1	0	000000	000000
EBMEM	87	107	108	1	1	0	000000	000000

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```
EBMEM   88  108  109        1    1    0    000000    000000
EBMEM   89  109  110        1    1    0    000000    000000
EBMEM   90  120  121        1    1    0    000000    000000
EBMEM   91  121  122        1    1    0    000000    000000
EBMEM   92  122  123        1    1    0    000000    000000
EBMEM   93  123  124        1    1    0    000000    000000
EBMEM   94  124  125        1    1    0    000000    000000
EBMEM   95  125  126        1    1    0    000000    000000
EBMEM   96  126  127        1    1    0    000000    000000
EBMEM   97  127  128        1    1    0    000000    000000
EBMEM   98  128  129        1    1    0    000000    000000
EBMEM   99  129  130        1    1    0    000000    000000
EBMEM  100  301  100        1    8    0    000011    000011
EBMEM  102  301  102        1    8    0    000011    000011
*
EBMEM  103  303  102        1    3    0    000011    000011
EBMEM  104  303  104        1    3    0    000011    000011
EBMEM  105  305  104        1    3    0    000011    000011
EBMEM  106  305  106        1    3    0    000011    000011
*
EBMEM  107  307  106        1    3    0    000011    000011
EBMEM  108  307  108        1    3    0    000011    000011
EBMEM  109  309  108        1    8    0    000011    000011
EBMEM  110  309  110        1    8    0    000011    000011
EBMEM  120  321  120        1    8    0    000011    000011
EBMEM  122  321  122        1    8    0    000011    000011
EBMEM  123  323  122        1    3    0    000011    000011
EBMEM  124  323  124        1    3    0    000011    000011
EBMEM  125  325  124        1    3    0    000011    000011
EBMEM  126  325  126        1    3    0    000011    000011
EBMEM  127  327  126        1    3    0    000011    000011
EBMEM  128  327  128        1    3    0    000011    000011
EBMEM  129  329  128        1    8    0    000011    000011
EBMEM  130  329  130        1    8    0    000011    000011
EBMEM  140  301  101        1    4    0    000011    000011
EBMEM  141  303  103        1    4    0    000011    000011
*
EBMEM  142  305  105        1    4    0    000011    000011
EBMEM  143  307  107        1    4    0    000011    000011
EBMEM  144  309  109        1    4    0    000011    000011
EBMEM  150  321  121        1    4    0    000011    000011
EBMEM  151  323  123        1    4    0    000011    000011
EBMEM  152  325  125        1    4    0    000011    000011
EBMEM  153  327  127        1    4    0    000011    000011
EBMEM  154  329  129        1    4    0    000011    000011
EBMEM  160  200  100        1    2    0    000000    000000
EBMEM  161  300  200        1    2    0    000000    000000
EBMEM  162  202  102        1    7    0    000000    000011
EBMEM  163  302  202        1    7    0    000011    000000
EBMEM  164  204  104        1    7    0    000000    000011
EBMEM  165  304  204        1    7    0    000011    000000
EBMEM  166  206  106        1    7    0    000000    000011
*
EBMEM  167  306  206        1    7    0    000011    000000
EBMEM  168  208  108        1    7    0    000000    000011
EBMEM  169  308  208        1    7    0    000011    000000
EBMEM  170  210  110        1    2    0    000000    000000
EBMEM  171  310  210        1    2    0    000000    000000
EBMEM  180  220  120        1    2    0    000000    000000
EBMEM  181  320  220        1    2    0    000000    000000
EBMEM  182  222  122        1    7    0    000000    000011
EBMEM  183  322  222        1    7    0    000011    000000
EBMEM  184  224  124        1    7    0    000000    000011
EBMEM  185  324  224        1    7    0    000011    000000
EBMEM  186  226  126        1    7    0    000000    000011
*
EBMEM  187  326  226        1    7    0    000011    000000
EBMEM  188  228  128        1    7    0    000000    000011
EBMEM  189  328  228        1    7    0    000011    000000
EBMEM  190  230  130        1    2    0    000000    000000
EBMEM  191  330  230        1    2    0    000000    000000
*
FLOAD  101    2        0.000    -0.680    0.000    -1.53    0.0    0.00
FLOAD  102    2        0.000    -0.680             -1.53
FLOAD  103    2                 -0.680             -1.53
FLOAD  104    2                 -0.680             -1.53
FLOAD  105    2                 -0.680             -1.53
FLOAD  106    2                 -0.680             -1.53
FLOAD  107    2                 -0.680             -1.53
FLOAD  108    2                 -0.680             -1.53
FLOAD  109    2                 -0.680             -1.53
FLOAD  100    2                 -0.680             -0.76
FLOAD  110    2                 -0.680             -0.76
*
```

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```
FSUMM    0
*
*_____________________________________________________
* LOAD COMBINATION
*_____________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1          1.08
FCASE    1    2          1.08
*FCASE    1   10          0.00
*FCASE    1   32          0.00
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*_____________________________________________
* MASS DISTRIBUTION
*_____________________________________________
* Upper Deck
GMASS  101    0          0.018     0.018     0.018
GMASS  102    0          0.018     0.018     0.018
GMASS  103    0          0.018     0.018     0.018
GMASS  104    0          0.018     0.018     0.018
GMASS  105    0          0.018     0.018     0.018
GMASS  106    0          0.018     0.018     0.018
GMASS  107    0          0.018     0.018     0.018
GMASS  108    0          0.018     0.018     0.018
GMASS  109    0          0.018     0.018     0.018
*
GSUMM    0
*
GSCAL    0       1.0       1.0       1.0       1.0       1.0
*
*    ** RESPONSE SPECTRAL CURVE **
*    API C2.3.6c
*    Soils profile Type B, Zone 4, G=0.25
*
GCURV    1     0.010    0.5900              32.17
GCURV          0.100    0.5900
GCURV          0.210    0.5900
GCURV          0.400    0.5900
GCURV          0.600    0.5900
GCURV          0.800    0.5900
GCURV          1.030    0.5900
GCURV          1.200    0.5100
GCURV          1.400    0.4400
GCURV          1.600    0.3800
GCURV          2.000    0.3100
GCURV          4.000    0.1500
*
GRESP    1 +CQC         1 .700                     0.05
GRESP    1 -CQC         1 .700                     0.05
GRESP    1 +CQC                              1 .610 0.05
GRESP    1 -CQC                              1 .610 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*      8700-8706
*#END
*
*_____________________________________________
* ANALYSIS REQUEST
*_____________________________________________
* Linear Static Analysis
ZSTAT    3    3    0
*
* Eigensolution (65 modes)
ZEIGN   65    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP    3    3    0              60    0    0
*
** Non-linear static pushover analysis
*ZPUSH    2    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                 1.0
**
```

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```
*ZPUSH     5     2    1     5    1     0    0     0    0
*                .00001    .00001    .00001     1000.
*                             1.0
*
**
*ZSNAP     0     2    0              2
*_____________________________________________________
* PLOT REQUEST
*_____________________________________________________
*ZPLOT     1     1    0     0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                0.00      0.10      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*       UNDF
*        END
**
*ZPLOT     1     1    0     0    0             'OSPREY' PRODUCTION STRUCTURE
*                1.00      1.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*       UNDF
*       PAGE
*       MODE              1
*       PAGE
*       MODE              2
*       PAGE
*       MODE              3
*       PAGE
*       MODE              4
*       PAGE
*       MODE              5
*       END
**
*ZPLOT     1     1    0     0    0             'OSPREY' DECK STRUCTURE
*                0.00      0.00      1.00       0.00      1.00      0.00
*                1.00      1.00      1.00
*       UNDF
*       END
***
ZPLOT     1     1    0     0    0             'OSPREY' DECK STRUCTURE
                1.00     0.001      0.00       0.00      1.00      0.00
                1.00      1.00      1.00
       UNDF
       END
***
```

.....EIGENSOLUTION

VECTOR	FREQUENCY (RAD/SEC)	FREQUENCY (HZ)	PERIOD (SEC)	PARTICIPATION FACTORS X	Y	Z	CONVERGENCE RATIO	MODAL MASS X	Y	Z	CUM MASS X	Y	Z	NON-CONV
1	1.0417E+01	1.6580E+00	6.0314E-01	7.1572E-02	1.5177E-02	1.8180E+00	0.0000E+00	0	0	62	0	0	62	
2	1.4128E+01	2.2486E+00	4.4472E-01	7.6047E-01	4.2395E-01	8.4696E-01	2.8478E-16	10	3	13	10	3	75	
3	1.6562E+01	2.6359E+00	3.7938E-01	3.8744E-01	1.7309E+00	-3.0615E-01	0.0000E+00	2	56	1	13	59	77	
4	2.1741E+01	3.4602E+00	2.8900E-01	5.8971E-02	-2.0993E-02	-1.0479E-02	1.0823E-15	0	0	0	13	59	77	
5	2.4600E+01	3.9152E+00	2.5542E-01	-1.8862E-01	6.3475E-02	-2.6431E-01	1.8787E-16	0	0	1	14	59	78	
6	2.5798E+01	4.1058E+00	2.4356E-01	2.0024E-01	-5.0148E-02	-3.4560E-02	0.0000E+00	0	0	0	15	59	78	
7	2.6581E+01	4.2305E+00	2.3638E-01	-1.5168E+00	3.6764E-01	2.1764E-01	1.6090E-16	43	2	0	58	62	79	
8	2.7262E+01	4.3388E+00	2.3048E-01	-4.0424E-01	7.6995E-02	1.7609E-01	1.5297E-16	3	0	0	61	62	80	
9	2.8716E+01	4.5702E+00	2.1881E-01	5.3688E-01	-1.1608E-01	-8.1737E-02	0.0000E+00	5	0	0	67	62	80	
10	2.9960E+01	4.7683E+00	2.0972E-01	-2.2070E-01	4.5792E-02	2.9186E-02	1.1706E-12	0	0	0	68	62	80	
11	3.0084E+01	4.7879E+00	2.0886E-01	-5.3214E-02	1.1028E-02	6.9505E-03	5.4469E-12	0	0	0	68	62	80	
12	3.0104E+01	4.7912E+00	2.0871E-01	-1.6401E-02	3.4018E-03	2.1576E-03	1.5327E-11	0	0	0	68	62	80	
13	3.0244E+01	4.8136E+00	2.0775E-01	1.9100E-02	-4.5096E-03	-2.3853E-03	0.0000E+00	0	0	0	68	62	80	
14	3.0313E+01	4.8245E+00	2.0727E-01	-2.1714E-01	4.3712E-02	2.7633E-02	0.0000E+00	0	0	0	69	62	80	
15	3.3255E+01	5.2927E+00	1.8894E-01	7.1829E-02	-1.3858E-02	1.2746E-01	2.0560E-16	0	0	0	69	62	80	
16	3.5090E+01	5.5847E+00	1.7906E-01	7.1891E-01	-1.2104E-01	-1.6894E-01	0.0000E+00	9	0	0	78	63	81	
17	3.7101E+01	5.9048E+00	1.6935E-01	-1.1952E-01	1.1723E-01	1.7728E-02	0.0000E+00	0	0	0	79	63	81	
18	3.7154E+01	5.9132E+00	1.6911E-01	-3.0584E-02	1.7400E-02	5.2669E-03	0.0000E+00	0	0	0	79	63	81	
19	3.7250E+01	5.9285E+00	1.6868E-01	7.4993E-03	-4.2774E-03	-1.0409E-03	0.0000E+00	0	0	0	79	63	81	
20	4.1769E+01	6.6477E+00	1.5043E-01	-3.5093E-01	6.4666E-02	6.4968E-02	0.0000E+00	2	0	0	81	63	81	
21	4.4142E+01	7.0255E+00	1.4234E-01	5.0892E-01	-9.5634E-02	-9.8497E-02	2.3851E-12	4	0	0	86	63	81	
22	4.7519E+01	7.5629E+00	1.3222E-01	-1.5083E-01	-8.0580E-02	3.5057E-02	1.7373E-11	0	0	0	86	63	81	
23	4.8249E+01	7.6791E+00	1.3022E-01	-9.1395E-03	-3.2898E-04	2.2194E-03	1.4132E-11	0	0	0	86	63	81	
24	4.8653E+01	7.7433E+00	1.2914E-01	-2.6697E-02	8.4043E-03	6.7616E-03	8.5951E-13	0	0	0	86	63	81	
25	5.0117E+01	7.9763E+00	1.2537E-01	-1.0774E-01	4.8667E-04	3.2972E-02	3.7854E-10	0	0	0	87	63	81	
26	5.1091E+01	8.1314E+00	1.2298E-01	2.3592E-02	-2.7263E-02	2.1839E-03	4.3478E-11	0	0	0	87	63	81	
27	5.1704E+01	8.2290E+00	1.2152E-01	3.4562E-02	2.0982E-02	4.8876E-02	4.5931E-11	0	0	0	87	63	81	
28	5.2147E+01	8.2995E+00	1.2049E-01	3.9587E-02	-4.9858E-03	-3.0555E-02	6.4593E-11	0	0	0	87	63	81	
29	5.2869E+01	8.4144E+00	1.1884E-01	-2.8666E-01	4.0207E-03	3.2346E-01	1.0844E-10	1	0	1	88	63	83	
30	5.3916E+01	8.5810E+00	1.1654E-01	-8.8993E-02	-3.6110E-01	-2.4188E-01	4.5875E-11	0	2	1	88	66	84	
31	5.4418E+01	8.6608E+00	1.1546E-01	2.9691E-01	-2.5563E-01	3.2277E-01	8.4556E-11	1	1	1	90	67	86	
32	5.6821E+01	9.0433E+00	1.1058E-01	3.4066E-02	-8.5768E-03	5.8272E-03	1.0088E-12	0	0	0	90	67	86	
33	6.0729E+01	9.6653E+00	1.0346E-01	5.1979E-02	-1.0071E-02	2.0209E-03	5.7361E-11	0	0	0	90	67	86	
34	6.3894E+01	1.0169E+01	9.8337E-02	1.3348E-03	-3.9319E-03	-1.0662E-03	4.0727E-10	0	0	0	90	67	86	
35	6.3905E+01	1.0171E+01	9.8320E-02	-2.1576E-03	2.7318E-04	-1.9422E-05	5.7755E-11	0	0	0	90	67	86	
36	6.3923E+01	1.0174E+01	9.8293E-02	1.7931E-03	-1.8397E-02	7.0008E-04	2.3146E-11	0	0	0	90	67	86	
37	6.3936E+01	1.0176E+01	9.8273E-02	-1.0194E-03	2.6971E-04	-1.8469E-05	4.0490E-10	0	0	0	90	67	86	
38	6.4172E+01	1.0213E+01	9.7911E-02	-1.0376E-03	3.0204E-03	8.1398E-04	5.3096E-10	0	0	0	90	67	86	
39	6.4182E+01	1.0215E+01	9.7897E-02	1.8091E-03	-2.4635E-04	1.7866E-05	8.0774E-11	0	0	0	90	67	86	
40	6.4198E+01	1.0217E+01	9.7872E-02	-1.5851E-03	1.6549E-02	-5.9575E-04	7.7395E-12	0	0	0	90	67	86	
41	6.4213E+01	1.0220E+01	9.7849E-02	1.0079E-03	-2.5308E-04	1.6877E-05	1.8264E-10	0	0	0	90	67	86	
42	6.8291E+01	1.0869E+01	9.2006E-02	-1.0221E-02	2.6811E-03	7.6883E-03	1.1431E-09	0	0	0	90	67	86	
43	6.8514E+01	1.0904E+01	9.1706E-02	-9.1920E-03	1.5761E-03	1.2864E-04	1.1624E-09	0	0	0	90	67	86	
44	7.0366E+01	1.1199E+01	8.9293E-02	-3.4628E-03	5.7697E-04	-8.6298E-05	2.4859E-09	0	0	0	90	67	86	
45	7.0459E+01	1.1214E+01	8.9175E-02	-1.8861E-05	-1.8382E-03	-7.3060E-04	2.2055E-09	0	0	0	90	67	86	
46	7.0550E+01	1.1228E+01	8.9060E-02	-6.8631E-04	3.8967E-04	2.7770E-03	1.3403E-10	0	0	0	90	67	86	
47	7.0643E+01	1.1243E+01	8.8943E-02	-2.4573E-05	4.1334E-06	-5.5488E-07	1.0151E-10	0	0	0	90	67	86	
48	7.8802E+01	1.2542E+01	7.9734E-02	3.4783E-02	-1.5081E-03	2.5046E-01	3.0043E-10	0	0	1	90	67	87	
49	8.0857E+01	1.2869E+01	7.7707E-02	3.4199E-02	-5.0076E-03	-2.1053E-03	3.8346E-10	0	0	0	90	67	87	
50	8.4029E+01	1.3374E+01	7.4774E-02	2.6139E-01	-3.1631E-02	1.4885E-01	1.9229E-09	1	0	0	91	67	88	

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51	8.7265E+01	1.3889E+01	7.2001E-02	-3.3467E-03	4.8709E-01	1.2467E-04	1.6345E-08	0	4	0	91	72	88	
52	8.7266E+01	1.3889E+01	7.2001E-02	-9.3520E-04	-1.6376E-01	1.4803E-03	2.6408E-10	0	0	0	91	72	88	
53	8.8804E+01	1.4134E+01	7.0753E-02	4.1005E-01	-5.6710E-02	-1.8961E-01	2.1987E-12	3	0	0	95	72	89	
54	9.2153E+01	1.4667E+01	6.8182E-02	-3.3885E-04	-5.9907E-02	-1.4442E-04	8.1265E-10	0	0	0	95	72	89	
55	9.2153E+01	1.4667E+01	6.8182E-02	-1.3722E-03	-1.4666E-02	3.3814E-04	6.2614E-11	0	0	0	95	72	89	
56	9.6884E+01	1.5420E+01	6.4853E-02	-1.4425E-01	1.8705E-02	2.0218E-02	7.5602E-12	0	0	0	95	72	89	
57	9.8044E+01	1.5604E+01	6.4085E-02	-4.5317E-02	-2.0799E-02	1.0201E-01	5.4873E-11	0	0	0	95	72	89	
58	1.0415E+02	1.6576E+01	6.0328E-02	4.1138E-02	7.5998E-01	-1.1571E-02	1.1328E-06	0	10	0	95	83	89	****
59	1.0422E+02	1.6587E+01	6.0289E-02	-1.6895E-03	-9.7933E-02	7.5480E-04	1.1088E-06	0	0	0	95	83	89	****
60	1.0441E+02	1.6617E+01	6.0181E-02	-5.7790E-02	4.9456E-01	9.4210E-03	1.9958E-06	0	4	0	95	88	89	****
61	1.0533E+02	1.6763E+01	5.9654E-02	2.0209E-02	-2.2597E-02	-5.2081E-03	1.3314E-05	0	0	0	95	88	89	****
62	1.0573E+02	1.6827E+01	5.9428E-02	-1.1300E-01	7.7675E-02	2.6329E-02	5.5282E-06	0	0	0	95	88	89	****
63	1.0582E+02	1.6841E+01	5.9378E-02	2.2438E-02	-6.3995E-02	-5.2460E-03	1.0813E-05	0	0	0	95	88	89	****
64	1.0605E+02	1.6878E+01	5.9249E-02	-1.7178E-02	1.1466E-02	3.9445E-03	2.9859E-05	0	0	0	95	88	89	****
65	1.0612E+02	1.6890E+01	5.9206E-02	4.7711E-03	2.6526E-03	-4.1261E-04	3.4055E-05	0	0	0	95	88	89	****

WARNING- NUMBER OF UNCONVERGED EIGENVALUES = 8
WARNING- NUMBER OF EIGENVALUES USED FOR ZRESP(60) IS LESS THAN THE NUMBER OF EIGENVALUES (65)

SEISMIC = 1 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 31

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 1

NODE NUMBER	TRANSLATIONS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ	NODE TYPE
100	-5.3921E-02	0.0000E+00	0.0000E+00	0.00E+00	5.39E-02	-90.00	2.8707E-04	-1.0808E-03	-6.0166E-03	
101	-5.1418E-02	-5.7328E-02	-1.7048E-02	-5.73E-02	5.42E-02	71.66	-9.6064E-03	-1.0853E-03	-5.5570E-03	
102	-4.8919E-02	-1.0861E-01	-2.8422E-02	-1.09E-01	5.66E-02	59.84	-7.7892E-04	-9.3462E-04	-4.6481E-03	
103	-4.2714E-02	-1.4931E-01	-4.4129E-02	-1.49E-01	6.14E-02	44.07	-1.2787E-02	-7.8258E-04	-3.4452E-03	
104	-3.6581E-02	-1.7590E-01	-4.5686E-02	-1.76E-01	5.85E-02	38.68	-3.0291E-03	-7.3366E-04	-1.7848E-03	
105	-2.9018E-02	-1.8419E-01	-5.4238E-02	-1.84E-01	6.15E-02	28.15	-1.4020E-02	-5.7778E-04	-1.5536E-04	
106	-2.1588E-02	-1.7575E-01	-4.5780E-02	-1.76E-01	5.06E-02	25.25	-3.0661E-03	-1.0154E-03	1.0970E-03	
107	-1.4835E-02	-1.4928E-01	-4.4518E-02	-1.49E-01	4.69E-02	18.43	-1.2815E-02	-9.5742E-04	2.2877E-03	
108	-8.1900E-03	-1.0866E-01	-2.8848E-02	-1.09E-01	3.00E-02	15.85	-8.5013E-04	-1.7346E-03	3.0748E-03	
109	-4.0965E-03	-5.7867E-02	-1.7924E-02	-5.79E-02	1.84E-02	12.87	-9.6672E-03	-1.4170E-03	3.7791E-03	
110	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	3.6373E-04	-2.2203E-03	3.3575E-03	
120	-4.5678E-02	0.0000E+00	2.1751E-05	0.00E+00	4.57E-02	-89.97	-1.4983E-03	-1.1086E-03	-5.0156E-03	
121	-4.3779E-02	-4.6203E-02	-1.7055E-02	-4.62E-02	4.70E-02	68.72	8.7109E-04	-1.0228E-03	-4.5500E-03	
122	-4.2013E-02	-8.7939E-02	-2.8487E-02	-8.79E-02	5.08E-02	55.86	-1.4925E-03	-5.0011E-04	-3.7574E-03	
123	-3.7544E-02	-1.2061E-01	-4.4140E-02	-1.21E-01	5.79E-02	40.38	-2.1471E-03	-6.1244E-04	-2.7907E-03	
124	-3.3481E-02	-1.4241E-01	-4.5778E-02	-1.42E-01	5.67E-02	36.18	-3.6244E-03	-2.4152E-04	-1.4355E-03	
125	-2.8537E-02	-1.4894E-01	-5.4252E-02	-1.49E-01	6.13E-02	27.74	-3.3804E-03	-1.7208E-04	-6.3858E-05	
126	-2.3944E-02	-1.4243E-01	-4.5867E-02	-1.42E-01	5.17E-02	27.57	-3.6330E-03	-6.1050E-04	1.1120E-03	
127	-2.0166E-02	-1.2065E-01	-4.4531E-02	-1.21E-01	4.89E-02	24.36	-2.1685E-03	-7.9534E-04	2.2125E-03	
128	-1.6354E-02	-8.7949E-02	-2.8905E-02	-8.79E-02	3.32E-02	29.50	-1.5293E-03	-1.4556E-03	2.9509E-03	
129	-1.5033E-02	-4.6217E-02	-1.7933E-02	-4.62E-02	2.34E-02	39.97	8.1512E-04	-1.4488E-03	3.5864E-03	
130	-1.3351E-02	0.0000E+00	3.0843E-05	0.00E+00	1.34E-02	-89.87	-1.4237E-03	-1.8402E-03	3.3064E-03	
200	-3.6766E-02	-4.0414E-04	-5.2616E-03	-4.04E-04	3.71E-02	81.86	-4.4549E-04	-5.1572E-03	-4.5224E-03	
202	-3.5950E-02	-1.0901E-01	-1.9676E-02	-1.09E-01	4.10E-02	61.31	-2.5249E-03	-6.0419E-04	-3.8847E-03	
204	-3.4802E-02	-1.7631E-01	-2.4468E-02	-1.76E-01	4.25E-02	54.89	-3.7066E-03	-4.3421E-04	-1.4695E-03	
206	-3.2970E-02	-1.7616E-01	-2.3280E-02	-1.76E-01	4.04E-02	54.77	-3.6970E-03	-4.6144E-04	9.1358E-04	
208	-3.0569E-02	-1.0905E-01	-1.4519E-02	-1.09E-01	3.38E-02	64.59	-2.5393E-03	-6.8882E-04	2.5085E-03	

210	-2.8428E-02	-3.9778E-04	-4.5781E-03	-3.98E-04	2.88E-02	80.85	-3.6485E-04	-3.8627E-03	2.7920E-03
220	-3.5544E-02	-4.0562E-04	-5.2568E-03	-4.06E-04	3.59E-02	81.59	-9.7595E-04	-5.1309E-03	-3.6625E-03
222	-3.4813E-02	-8.8308E-02	-1.9676E-02	-8.83E-02	4.00E-02	60.52	-2.5285E-03	-3.3938E-04	-3.1443E-03
224	-3.4254E-02	-1.4279E-01	-2.4468E-02	-1.43E-01	4.21E-02	54.46	-3.7109E-03	-1.5216E-04	-1.1918E-03
226	-3.3798E-02	-1.4281E-01	-2.3280E-02	-1.43E-01	4.10E-02	55.44	-3.7007E-03	-1.8839E-04	8.9772E-04
228	-3.3472E-02	-8.8317E-02	-1.4519E-02	-8.83E-02	3.65E-02	66.55	-2.5420E-03	-4.6432E-04	2.4214E-03
230	-3.3568E-02	-4.0026E-04	-4.5731E-03	-4.00E-04	3.39E-02	82.24	-8.9540E-04	-3.1283E-03	2.8010E-03
300	-8.7699E-03	-6.0346E-04	-9.1622E-03	-6.03E-04	1.27E-02	43.75	5.8308E-04	-1.4378E-03	-5.7058E-03
301	-8.6734E-03	-5.7104E-02	-7.0080E-03	-5.71E-02	1.12E-02	51.06	-1.5182E-03	-3.7523E-04	-5.6679E-03
302	-1.2551E-02	-1.0921E-01	-9.5829E-03	-1.09E-01	1.58E-02	52.64	-3.1709E-03	-6.4205E-04	-4.6246E-03
303	-1.6352E-02	-1.4905E-01	-5.2736E-03	-1.49E-01	1.72E-02	72.13	-4.7455E-03	-2.0015E-04	-3.4521E-03
304	-2.2343E-02	-1.7651E-01	-1.0602E-02	-1.77E-01	2.47E-02	64.61	-5.2730E-03	-2.9645E-04	-1.7839E-03
305	-2.8361E-02	-1.8392E-01	-4.8261E-03	-1.84E-01	2.88E-02	80.34	-5.9654E-03	-1.3011E-04	-1.5744E-04
306	-3.4638E-02	-1.7636E-01	-1.0358E-02	-1.76E-01	3.62E-02	73.35	-5.2825E-03	-6.1297E-05	1.0966E-03
307	-4.0945E-02	-1.4903E-01	-4.7056E-03	-1.49E-01	4.12E-02	83.44	-4.7698E-03	-2.2762E-04	2.2883E-03
308	-4.5275E-02	-1.0925E-01	-8.8810E-03	-1.09E-01	4.61E-02	78.90	-3.2054E-03	1.2162E-05	3.0653E-03
309	-4.9556E-02	-5.7652E-02	-5.9671E-03	-5.77E-02	4.99E-02	83.13	-1.5754E-03	-3.9668E-04	3.7712E-03
310	-4.9622E-02	-5.9379E-04	-8.1261E-03	-5.94E-04	5.03E-02	80.70	6.1671E-04	-6.9629E-04	3.5823E-03
320	-1.2202E-02	-6.0718E-04	-9.2462E-03	-6.07E-04	1.53E-02	52.85	-1.3735E-03	-1.5127E-03	-4.9053E-03
321	-1.2125E-02	-4.6151E-02	-6.9816E-03	-4.62E-02	1.40E-02	60.07	-2.3621E-03	-3.6478E-04	-4.6055E-03
322	-1.5484E-02	-8.8493E-02	-9.5749E-03	-8.85E-02	1.82E-02	58.27	-3.9389E-03	-6.5528E-04	-3.7462E-03
323	-1.8764E-02	-1.2053E-01	-5.2200E-03	-1.21E-01	1.95E-02	74.45	-5.5165E-03	-2.0150E-04	-2.7955E-03
324	-2.3850E-02	-1.4297E-01	-1.0592E-02	-1.43E-01	2.61E-02	66.05	-6.1295E-03	-2.9373E-04	-1.4334E-03
325	-2.8885E-02	-1.4885E-01	-4.7628E-03	-1.49E-01	2.93E-02	80.64	-6.7472E-03	-1.3239E-04	-6.7303E-05
326	-3.4054E-02	-1.4299E-01	-1.0347E-02	-1.43E-01	3.56E-02	73.10	-6.1370E-03	-5.5659E-05	1.1113E-03
327	-3.9181E-02	-1.2057E-01	-4.6527E-03	-1.21E-01	3.95E-02	83.23	-5.5377E-03	-2.3339E-04	2.2143E-03
328	-4.2690E-02	-8.8502E-02	-8.8767E-03	-8.85E-02	4.36E-02	78.25	-3.9720E-03	3.6169E-05	2.9420E-03
329	-4.6146E-02	-4.6170E-02	-5.9445E-03	-4.62E-02	4.65E-02	82.66	-2.4198E-03	-4.5684E-04	3.6167E-03
330	-4.6205E-02	-5.9936E-04	-8.2019E-03	-5.99E-04	4.69E-02	79.93	-1.3382E-03	-5.7084E-04	3.2102E-03
351	-1.1849E-02	-4.0278E-03	-9.1898E-03	-4.03E-03	1.50E-02	52.20	1.1531E-03	-1.3857E-03	-5.3741E-03
352	-1.9894E-02	-1.0961E-01	-9.5852E-03	-1.10E-01	2.21E-02	64.27	-1.2141E-03	-3.0794E-03	-4.2778E-03
354	-2.8490E-02	-1.7233E-01	-1.0604E-02	-1.72E-01	3.04E-02	69.59	-3.5010E-03	-2.7451E-03	-1.6462E-03
356	-3.9325E-02	-1.7204E-01	-1.0359E-02	-1.72E-01	4.07E-02	75.24	-3.5303E-03	-2.3899E-03	1.1455E-03
358	-4.8809E-02	-1.0940E-01	-8.8828E-03	-1.09E-01	4.96E-02	79.69	-1.2761E-03	-2.1123E-03	3.1599E-03
360	-4.9887E-02	-4.0070E-03	-8.1499E-03	-4.01E-03	5.05E-02	80.72	1.1535E-03	-7.7229E-04	3.6787E-03
361	-1.3732E-02	-5.3577E-03	-9.2130E-03	-5.36E-03	1.65E-02	56.14	-1.3579E-04	-5.6284E-04	-5.1156E-03
362	-2.3610E-02	-1.0590E-01	-9.5846E-03	-1.06E-01	2.55E-02	67.90	-3.7837E-03	-4.8841E-04	-3.9661E-03
364	-3.1622E-02	-1.6434E-01	-1.0602E-02	-1.64E-01	3.34E-02	71.46	-6.1374E-03	-2.2819E-04	-1.5224E-03
366	-4.1708E-02	-1.6402E-01	-1.0357E-02	-1.64E-01	4.30E-02	76.05	-6.1407E-03	-8.1113E-05	1.1827E-03
368	-5.0514E-02	-1.0553E-01	-8.8827E-03	-1.06E-01	5.13E-02	80.03	-3.8153E-03	-6.2710E-05	3.2191E-03
370	-4.9887E-02	-5.3518E-03	-8.1705E-03	-5.35E-03	5.06E-02	80.70	-1.2410E-04	-7.8365E-05	3.6867E-03
371	-1.3367E-02	-4.0197E-03	-9.2318E-03	-4.02E-03	1.62E-02	55.37	-1.1644E-03	-1.4345E-03	-4.9587E-03
372	-2.1139E-02	-9.7678E-02	-9.5811E-03	-9.77E-02	2.32E-02	65.62	-6.3597E-03	-3.1036E-03	-3.7662E-03
374	-2.9166E-02	-1.5299E-01	-1.0599E-02	-1.53E-01	3.10E-02	70.03	-8.7643E-03	-2.6900E-03	-1.4418E-03
376	-3.9139E-02	-1.5281E-01	-1.0353E-02	-1.53E-01	4.05E-02	75.18	-8.7383E-03	-2.2781E-03	1.1837E-03
378	-4.7738E-02	-9.7408E-02	-8.8807E-03	-9.74E-02	4.86E-02	79.46	-6.3553E-03	-1.9996E-03	3.1686E-03
380	-4.8406E-02	-3.9943E-03	-8.1879E-03	-3.99E-03	4.91E-02	80.40	-1.1646E-03	-6.5087E-04	3.5291E-03
400	-5.3006E-02	-3.4531E-03	5.4179E-06	-3.45E-03	5.30E-02	-89.99	1.0988E-03	-1.1385E-03	-5.6682E-03
402	-4.8455E-02	-1.0794E-01	-2.8445E-02	-1.08E-01	5.62E-02	59.58	-1.4685E-03	-1.3368E-03	-4.3020E-03
404	-3.7485E-02	-1.7065E-01	-4.5719E-02	-1.71E-01	5.91E-02	39.35	-3.7530E-03	-1.1347E-03	-1.6470E-03
406	-2.4044E-02	-1.7038E-01	-4.5812E-02	-1.70E-01	5.17E-02	27.69	-3.7814E-03	-1.3364E-03	1.1463E-03
408	-1.1970E-02	-1.0775E-01	-2.8868E-02	-1.08E-01	3.13E-02	22.52	-1.5301E-03	-1.9033E-03	3.1700E-03
410	-5.0347E-03	-3.3910E-03	7.6957E-06	-3.39E-03	5.03E-03	-89.91	1.1018E-03	-2.0626E-03	3.4505E-03
500	-5.2061E-02	-4.6257E-03	1.0844E-05	-4.63E-03	5.21E-02	-89.99	-1.8368E-04	-7.4156E-04	-5.3710E-03
502	-4.8356E-02	-1.0408E-01	-2.8464E-02	-1.04E-01	5.61E-02	59.52	-3.7009E-03	-6.1812E-04	-3.9911E-03
504	-3.8202E-02	-1.6252E-01	-4.5745E-02	-1.63E-01	5.96E-02	39.87	-6.0526E-03	-2.6239E-04	-1.5233E-03
506	-2.5948E-02	-1.6221E-01	-4.5837E-02	-1.62E-01	5.27E-02	29.51	-6.0562E-03	-4.4994E-04	1.1839E-03

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508	-1.5223E-02	-1.0372E-01	-2.8885E-02	-1.04E-01	3.27E-02	27.79	-3.7327E-03	-1.1131E-03	3.2300E-03
510	-8.8004E-03	-4.6258E-03	1.5397E-05	-4.63E-03	8.80E-03	-89.90	-1.5311E-04	-1.4145E-03	3.4988E-03
600	-4.9392E-02	-3.5543E-03	1.6286E-05	-3.55E-03	4.94E-02	-89.98	-1.1433E-03	-1.2084E-03	-5.1482E-03
602	-4.6093E-02	-9.6331E-02	-2.8478E-02	-9.63E-02	5.42E-02	58.29	-6.0723E-03	-1.4063E-03	-3.7870E-03
604	-3.6681E-02	-1.5164E-01	-4.5765E-02	-1.52E-01	5.87E-02	38.71	-8.4759E-03	-1.2282E-03	-1.4432E-03
606	-2.5599E-02	-1.5146E-01	-4.5855E-02	-1.51E-01	5.25E-02	29.17	-8.4513E-03	-1.2380E-03	1.1850E-03
608	-1.6275E-02	-9.6073E-02	-2.8897E-02	-9.61E-02	3.32E-02	29.39	-6.0689E-03	-1.4061E-03	3.1795E-03
610	-1.0959E-02	-3.4958E-03	2.3111E-05	-3.50E-03	1.10E-02	-89.88	-1.1391E-03	-1.6809E-03	3.4647E-03
700	-4.6103E-02	-2.8981E-03	-5.2645E-03	-2.90E-03	4.64E-02	83.49	7.8223E-04	-3.7446E-03	-4.1591E-03
702	-4.5914E-02	-1.0941E-01	-1.9687E-02	-1.09E-01	5.00E-02	66.79	-1.2117E-03	-3.9173E-03	-3.5770E-03
704	-4.4371E-02	-1.7212E-01	-2.4476E-02	-1.72E-01	5.07E-02	61.12	-3.4982E-03	-3.6674E-03	-1.3474E-03
706	-4.2037E-02	-1.7184E-01	-2.3286E-02	-1.72E-01	4.81E-02	61.02	-3.5272E-03	-3.3962E-03	9.6097E-04
708	-3.9097E-02	-1.0920E-01	-1.4523E-02	-1.09E-01	4.17E-02	69.62	-1.2737E-03	-3.1813E-03	2.6085E-03
710	-3.6045E-02	-2.8379E-03	-4.5798E-03	-2.84E-03	3.63E-02	82.76	7.8470E-04	-2.9337E-03	2.9345E-03
800	-5.0170E-02	-3.5700E-03	-5.2646E-03	-3.57E-03	5.04E-02	84.01	-2.6106E-04	-4.2220E-04	-3.8344E-03
802	-5.0203E-02	-1.0570E-01	-1.9691E-02	-1.06E-01	5.39E-02	68.58	-3.7813E-03	-3.3915E-04	-3.3019E-03
804	-4.8474E-02	-1.6414E-01	-2.4479E-02	-1.64E-01	5.43E-02	63.21	-6.1342E-03	-1.4761E-04	-1.2391E-03
806	-4.6016E-02	-1.6382E-01	-2.3288E-02	-1.64E-01	5.16E-02	63.16	-6.1375E-03	-1.4928E-04	9.9618E-04
808	-4.3089E-02	-1.0533E-01	-1.4525E-02	-1.05E-01	4.55E-02	71.37	-3.8129E-03	-3.9087E-04	2.6766E-03
810	-4.0042E-02	-3.5711E-03	-4.5795E-03	-3.57E-03	4.03E-02	83.48	-2.3014E-04	-6.3483E-04	3.0429E-03
900	-4.5747E-02	-2.8994E-03	-5.2620E-03	-2.90E-03	4.60E-02	83.44	-8.2841E-04	-3.7162E-03	-3.6448E-03
902	-4.5580E-02	-9.7482E-02	-1.9687E-02	-9.75E-02	4.96E-02	66.64	-6.3568E-03	-3.9069E-03	-3.1375E-03
904	-4.4193E-02	-1.5279E-01	-2.4476E-02	-1.53E-01	5.05E-02	61.02	-8.7606E-03	-3.6782E-03	-1.1801E-03
906	-4.2381E-02	-1.5261E-01	-2.3286E-02	-1.53E-01	4.84E-02	61.21	-8.7349E-03	-3.3073E-03	9.8497E-04
908	-4.0371E-02	-9.7216E-02	-1.4523E-02	-9.72E-02	4.29E-02	70.21	-6.3525E-03	-2.8176E-03	2.6349E-03
910	-3.8471E-02	-2.8382E-03	-4.5773E-03	-2.84E-03	3.87E-02	83.21	-8.2585E-04	-2.1700E-03	3.0326E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 1

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	100	105	125	105	200	100	110	130	130	360	328	109
DISP	-5.39E-02	-1.84E-01	-5.43E-02	-1.40E-02	-5.16E-03	-6.02E-03	0.00E+00	0.00E+00	3.08E-05	1.15E-03	3.62E-05	3.78E-03

SEISMIC = 2 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 32

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 2

NODE	----------TRANSLATIONS----------					---------ROTATIONS---------				
NUMBER	X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	XX	YY	ZZ	NODE TYPE
100	-5.3921E-02	0.0000E+00	0.0000E+00	0.00E+00	5.39E-02	-90.00	2.8707E-04	-1.0808E-03	-6.0166E-03	
101	-5.1418E-02	-5.7328E-02	-1.7048E-02	-5.73E-02	5.42E-02	71.66	-9.6064E-03	-1.0853E-03	-5.5570E-03	
102	-4.8919E-02	-1.0861E-01	-2.8422E-02	-1.09E-01	5.66E-02	59.84	-7.7892E-04	-9.3462E-04	-4.6481E-03	
103	-4.2714E-02	-1.4931E-01	-4.4129E-02	-1.49E-01	6.14E-02	44.07	-1.2787E-02	-7.8258E-04	-3.4452E-03	
104	-3.6581E-02	-1.7590E-01	-4.5686E-02	-1.76E-01	5.85E-02	38.68	-3.0291E-03	-7.3366E-04	-1.7848E-03	
105	-2.9018E-02	-1.8419E-01	-5.4238E-02	-1.84E-01	6.15E-02	28.15	-1.4020E-02	-5.7778E-04	-1.5536E-04	
106	-2.1588E-02	-1.7575E-01	-4.5780E-02	-1.76E-01	5.06E-02	25.25	-3.0661E-03	-1.0154E-03	1.0970E-03	
107	-1.4835E-02	-1.4928E-01	-4.4518E-02	-1.49E-01	4.69E-02	18.43	-1.2815E-02	-9.5742E-04	2.2877E-03	

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108	-8.1900E-03	-1.0866E-01	-2.8848E-02	-1.09E-01	3.00E-02	15.85	-8.5013E-04	-1.7346E-03	3.0748E-03
109	-4.0965E-03	-5.7867E-02	-1.7924E-02	-5.79E-02	1.84E-02	12.87	-9.6672E-03	-1.4170E-03	3.7791E-03
110	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	3.6373E-04	-2.2203E-03	3.3575E-03
120	-4.5678E-02	0.0000E+00	2.1751E-05	0.00E+00	4.57E-02	-89.97	-1.4983E-03	-1.1086E-03	-5.0156E-03
121	-4.3779E-02	-4.6203E-02	-1.7055E-02	-4.62E-02	4.70E-02	68.72	8.7109E-04	-1.0228E-03	-4.5500E-03
122	-4.2013E-02	-8.7939E-02	-2.8487E-02	-8.79E-02	5.08E-02	55.86	-1.4925E-03	-5.0011E-04	-3.7574E-03
123	-3.7544E-02	-1.2061E-01	-4.4140E-02	-1.21E-01	5.79E-02	40.38	-2.1471E-03	-6.1244E-04	-2.7907E-03
124	-3.3481E-02	-1.4241E-01	-4.5778E-02	-1.42E-01	5.67E-02	36.18	-3.6244E-03	-2.4152E-04	-1.4355E-03
125	-2.8537E-02	-1.4894E-01	-5.4252E-02	-1.49E-01	6.13E-02	27.74	-3.3804E-03	-1.7208E-04	-6.3858E-05
126	-2.3944E-02	-1.4243E-01	-4.5867E-02	-1.42E-01	5.17E-02	27.57	-3.6330E-03	-6.1050E-04	1.1120E-03
127	-2.0166E-02	-1.2065E-01	-4.4531E-02	-1.21E-01	4.89E-02	24.36	-2.1685E-03	-7.9534E-04	2.2125E-03
128	-1.6354E-02	-8.7949E-02	-2.8905E-02	-8.79E-02	3.32E-02	29.50	-1.5293E-03	-1.4556E-03	2.9509E-03
129	-1.5033E-02	-4.6217E-02	-1.7933E-02	-4.62E-02	2.34E-02	39.97	8.1512E-04	-1.4488E-03	3.5864E-03
130	-1.3351E-02	0.0000E+00	3.0843E-05	0.00E+00	1.34E-02	-89.87	-1.4237E-03	-1.8402E-03	3.3064E-03
200	-3.6766E-02	-4.0414E-04	-5.2616E-03	-4.04E-04	3.71E-02	81.86	-4.4549E-04	-5.1572E-03	-4.5224E-03
202	-3.5950E-02	-1.0901E-01	-1.9676E-02	-1.09E-01	4.10E-02	61.31	-2.5249E-03	-6.0419E-04	-3.8847E-03
204	-3.4802E-02	-1.7631E-01	-2.4468E-02	-1.76E-01	4.25E-02	54.89	-3.7066E-03	-4.3421E-04	-1.4695E-03
206	-3.2970E-02	-1.7616E-01	-2.3280E-02	-1.76E-01	4.04E-02	54.77	-3.6970E-03	-4.6144E-04	9.1358E-04
208	-3.0569E-02	-1.0905E-01	-1.4519E-02	-1.09E-01	3.38E-02	64.59	-2.5393E-03	-6.8882E-04	2.5085E-03
210	-2.8428E-02	-3.9778E-04	-4.5781E-03	-3.98E-04	2.88E-02	80.85	-3.6485E-04	-3.8627E-03	2.7920E-03
220	-3.5544E-02	-4.0562E-04	-5.2568E-03	-4.06E-04	3.59E-02	81.59	-9.7595E-04	-5.1309E-03	-3.6625E-03
222	-3.4813E-02	-8.8308E-02	-1.9676E-02	-8.83E-02	4.00E-02	60.52	-2.5285E-03	-3.3938E-04	-3.1443E-03
224	-3.4254E-02	-1.4279E-01	-2.4468E-02	-1.43E-01	4.21E-02	54.46	-3.7109E-03	-1.5216E-04	-1.1918E-03
226	-3.3798E-02	-1.4281E-01	-2.3280E-02	-1.43E-01	4.10E-02	55.44	-3.7007E-03	-1.8839E-04	8.9772E-04
228	-3.3472E-02	-8.8317E-02	-1.4519E-02	-8.83E-02	3.65E-02	66.55	-2.5420E-03	-4.6432E-04	2.4214E-03
230	-3.3568E-02	-4.0026E-04	-4.5731E-03	-4.00E-04	3.39E-02	82.24	-8.9540E-04	-3.1283E-03	2.8010E-03
300	-8.7699E-03	-6.0346E-04	-9.1622E-03	-6.03E-04	1.27E-02	43.75	5.8308E-04	-1.4378E-03	-5.7058E-03
301	-8.6734E-03	-5.7104E-02	-7.0080E-03	-5.71E-02	1.12E-02	51.06	-1.5182E-03	-3.7523E-04	-5.6679E-03
302	-1.2551E-02	-1.0921E-01	-9.5829E-03	-1.09E-01	1.58E-02	52.64	-3.1709E-03	-6.4205E-04	-4.6246E-03
303	-1.6352E-02	-1.4905E-01	-5.2736E-03	-1.49E-01	1.72E-02	72.13	-4.7455E-03	-2.0015E-04	-3.4521E-03
304	-2.2343E-02	-1.7651E-01	-1.0602E-02	-1.77E-01	2.47E-02	64.61	-5.2730E-03	-2.9645E-04	-1.7839E-03
305	-2.8361E-02	-1.8392E-01	-4.8261E-03	-1.84E-01	2.88E-02	80.34	-5.9654E-03	-1.3011E-04	-1.5744E-04
306	-3.4638E-02	-1.7636E-01	-1.0358E-02	-1.76E-01	3.62E-02	73.35	-5.2825E-03	-6.1297E-05	1.0966E-03
307	-4.0945E-02	-1.4903E-01	-4.7056E-03	-1.49E-01	4.12E-02	83.44	-4.7698E-03	-2.2762E-04	2.2883E-03
308	-4.5275E-02	-1.0925E-01	-8.8810E-03	-1.09E-01	4.61E-02	78.90	-3.2054E-03	1.2162E-05	3.0653E-03
309	-4.9556E-02	-5.7652E-02	-5.9671E-03	-5.77E-02	4.99E-02	83.13	-1.5754E-03	-3.9668E-04	3.7712E-03
310	-4.9622E-02	-5.9379E-04	-8.1261E-03	-5.94E-04	5.03E-02	80.70	6.1671E-04	-6.9629E-04	3.5823E-03
320	-1.2202E-02	-6.0718E-04	-9.2462E-03	-6.07E-04	1.53E-02	52.85	-1.3735E-03	-1.5127E-03	-4.9053E-03
321	-1.2125E-02	-4.6151E-02	-6.9816E-03	-4.62E-02	1.40E-02	60.07	-2.3621E-03	-3.6478E-04	-4.6055E-03
322	-1.5484E-02	-8.8493E-02	-9.5749E-03	-8.85E-02	1.82E-02	58.27	-3.9389E-03	-6.5528E-04	-3.7462E-03
323	-1.8764E-02	-1.2053E-01	-5.2200E-03	-1.21E-01	1.95E-02	74.45	-5.5165E-03	-2.0150E-04	-2.7955E-03
324	-2.3850E-02	-1.4297E-01	-1.0592E-02	-1.43E-01	2.61E-02	66.05	-6.1295E-03	-2.9373E-04	-1.4334E-03
325	-2.8885E-02	-1.4885E-01	-4.7628E-03	-1.49E-01	2.93E-02	80.64	-6.7472E-03	-1.3239E-04	-6.7303E-05
326	-3.4054E-02	-1.4299E-01	-1.0347E-02	-1.43E-01	3.56E-02	73.10	-6.1370E-03	-5.5659E-05	1.1113E-03
327	-3.9181E-02	-1.2057E-01	-4.6527E-03	-1.21E-01	3.95E-02	83.23	-5.5377E-03	-2.3339E-04	2.2143E-03
328	-4.2690E-02	-8.8502E-02	-8.8767E-03	-8.85E-02	4.36E-02	78.25	-3.9720E-03	3.6169E-05	2.9420E-03
329	-4.6146E-02	-4.6170E-02	-5.9445E-03	-4.62E-02	4.65E-02	82.66	-2.4198E-03	-4.5684E-04	3.6167E-03
330	-4.6205E-02	-5.9936E-04	-8.2019E-03	-5.99E-04	4.69E-02	79.93	-1.3382E-03	-5.7084E-04	3.2102E-03
351	-1.1849E-02	-4.0278E-03	-9.1898E-03	-4.03E-03	1.50E-02	52.20	1.1531E-03	-1.3857E-03	-5.3741E-03
352	-1.9894E-02	-1.0961E-01	-9.5852E-03	-1.10E-01	2.21E-02	64.27	-1.2141E-03	-3.0794E-03	-4.2778E-03
354	-2.8490E-02	-1.7233E-01	-1.0604E-02	-1.72E-01	3.04E-02	69.59	-3.5010E-03	-2.7451E-03	-1.6462E-03
356	-3.9325E-02	-1.7204E-01	-1.0359E-02	-1.72E-01	4.07E-02	75.24	-3.5303E-03	-2.3899E-03	1.1455E-03
358	-4.8809E-02	-1.0940E-01	-8.8828E-03	-1.09E-01	4.96E-02	79.69	-1.2761E-03	-2.1123E-03	3.1599E-03
360	-4.9887E-02	-4.0070E-03	-8.1499E-03	-4.01E-03	5.05E-02	80.72	1.1535E-03	-7.7229E-04	3.6787E-03
361	-1.3732E-02	-5.3577E-03	-9.2130E-03	-5.36E-03	1.65E-02	56.14	-1.3579E-04	-5.6284E-04	-5.1156E-03
362	-2.3610E-02	-1.0590E-01	-9.5846E-03	-1.06E-01	2.55E-02	67.90	-3.7837E-03	-4.8841E-04	-3.9661E-03
364	-3.1622E-02	-1.6434E-01	-1.0602E-02	-1.64E-01	3.34E-02	71.46	-6.1374E-03	-2.2819E-04	-1.5224E-03

366	-4.1708E-02	-1.6402E-01	-1.0357E-02	-1.64E-01	4.30E-02	76.05	-6.1407E-03	-8.1113E-05	1.1827E-03
368	-5.0514E-02	-1.0553E-01	-8.8827E-03	-1.06E-01	5.13E-02	80.03	-3.8153E-03	-6.2710E-05	3.2191E-03
370	-4.9887E-02	-5.3518E-03	-8.1705E-03	-5.35E-03	5.06E-02	80.70	-1.2410E-04	-7.8365E-05	3.6867E-03
371	-1.3367E-02	-4.0197E-03	-9.2318E-03	-4.02E-03	1.62E-02	55.37	-1.1644E-03	-1.4345E-03	-4.9587E-03
372	-2.1139E-02	-9.7678E-02	-9.5811E-03	-9.77E-02	2.32E-02	65.62	-6.3597E-03	-3.1036E-03	-3.7662E-03
374	-2.9166E-02	-1.5299E-01	-1.0599E-02	-1.53E-01	3.10E-02	70.03	-8.7643E-03	-2.6900E-03	-1.4418E-03
376	-3.9139E-02	-1.5281E-01	-1.0353E-02	-1.53E-01	4.05E-02	75.18	-8.7383E-03	-2.2781E-03	1.1837E-03
378	-4.7738E-02	-9.7408E-02	-8.8807E-03	-9.74E-02	4.86E-02	79.46	-6.3553E-03	-1.9996E-03	3.1686E-03
380	-4.8406E-02	-3.9943E-03	-8.1879E-03	-3.99E-03	4.91E-02	80.40	-1.1646E-03	-6.5087E-04	3.5291E-03
400	-5.3006E-02	-3.4531E-03	5.4179E-06	-3.45E-03	5.30E-02	-89.99	1.0988E-03	-1.1385E-03	-5.6682E-03
402	-4.8455E-02	-1.0794E-01	-2.8445E-02	-1.08E-01	5.62E-02	59.58	-1.4685E-03	-1.3368E-03	-4.3020E-03
404	-3.7485E-02	-1.7065E-01	-4.5719E-02	-1.71E-01	5.91E-02	39.35	-3.7530E-03	-1.1347E-03	-1.6470E-03
406	-2.4044E-02	-1.7038E-01	-4.5812E-02	-1.70E-01	5.17E-02	27.69	-3.7814E-03	-1.3364E-03	1.1463E-03
408	-1.1970E-02	-1.0775E-01	-2.8868E-02	-1.08E-01	3.13E-02	22.52	-1.5301E-03	-1.9033E-03	3.1700E-03
410	-5.0347E-03	-3.3910E-03	7.6957E-06	-3.39E-03	5.03E-03	-89.91	1.1018E-03	-2.0626E-03	3.4505E-03
500	-5.2061E-02	-4.6257E-03	1.0844E-05	-4.63E-03	5.21E-02	-89.99	-1.8368E-04	-7.4156E-04	-5.3710E-03
502	-4.8356E-02	-1.0408E-01	-2.8464E-02	-1.04E-01	5.61E-02	59.52	-3.7009E-03	-6.1812E-04	-3.9911E-03
504	-3.8202E-02	-1.6252E-01	-4.5745E-02	-1.63E-01	5.96E-02	39.87	-6.0526E-03	-2.6239E-04	-1.5233E-03
506	-2.5948E-02	-1.6221E-01	-4.5837E-02	-1.62E-01	5.27E-02	29.51	-6.0562E-03	-4.4994E-04	1.1839E-03
508	-1.5223E-02	-1.0372E-01	-2.8885E-02	-1.04E-01	3.27E-02	27.79	-3.7327E-03	-1.1131E-03	3.2300E-03
510	-8.8004E-03	-4.6258E-03	1.5397E-05	-4.63E-03	8.80E-03	-89.90	-1.5311E-04	-1.4145E-03	3.4988E-03
600	-4.9392E-02	-3.5543E-03	1.6286E-05	-3.55E-03	4.94E-02	-89.98	-1.1433E-03	-1.2084E-03	-5.1482E-03
602	-4.6093E-02	-9.6331E-02	-2.8478E-02	-9.63E-02	5.42E-02	58.29	-6.0723E-03	-1.4063E-03	-3.7870E-03
604	-3.6681E-02	-1.5164E-01	-4.5765E-02	-1.52E-01	5.87E-02	38.71	-8.4759E-03	-1.2282E-03	-1.4432E-03
606	-2.5599E-02	-1.5146E-01	-4.5855E-02	-1.51E-01	5.25E-02	29.17	-8.4513E-03	-1.2380E-03	1.1850E-03
608	-1.6275E-02	-9.6073E-02	-2.8897E-02	-9.61E-02	3.32E-02	29.39	-6.0689E-03	-1.4061E-03	3.1795E-03
610	-1.0959E-02	-3.4958E-03	2.3111E-05	-3.50E-03	1.10E-02	-89.88	-1.1391E-03	-1.6809E-03	3.4647E-03
700	-4.6103E-02	-2.8981E-03	-5.2645E-03	-2.90E-03	4.64E-02	83.49	7.8223E-04	-3.7446E-03	-4.1591E-03
702	-4.5914E-02	-1.0941E-01	-1.9687E-02	-1.09E-01	5.00E-02	66.79	-1.2117E-03	-3.9173E-03	-3.5770E-03
704	-4.4371E-02	-1.7212E-01	-2.4476E-02	-1.72E-01	5.07E-02	61.12	-3.4982E-03	-3.6674E-03	-1.3474E-03
706	-4.2037E-02	-1.7184E-01	-2.3286E-02	-1.72E-01	4.81E-02	61.02	-3.5272E-03	-3.3962E-03	9.6097E-04
708	-3.9097E-02	-1.0920E-01	-1.4523E-02	-1.09E-01	4.17E-02	69.62	-1.2737E-03	-3.1813E-03	2.6085E-03
710	-3.6045E-02	-2.8379E-03	-4.5798E-03	-2.84E-03	3.63E-02	82.76	7.8470E-04	-2.9337E-03	2.9345E-03
800	-5.0170E-02	-3.5700E-03	-5.2646E-03	-3.57E-03	5.04E-02	84.01	-2.6106E-04	-4.2220E-04	-3.8344E-03
802	-5.0203E-02	-1.0570E-01	-1.9691E-02	-1.06E-01	5.39E-02	68.58	-3.7813E-03	-3.3915E-04	-3.3019E-03
804	-4.8474E-02	-1.6414E-01	-2.4479E-02	-1.64E-01	5.43E-02	63.21	-6.1342E-03	-1.4761E-04	-1.2391E-03
806	-4.6016E-02	-1.6382E-01	-2.3288E-02	-1.64E-01	5.16E-02	63.16	-6.1375E-03	-1.4928E-04	9.9618E-04
808	-4.3089E-02	-1.0533E-01	-1.4525E-02	-1.05E-01	4.55E-02	71.37	-3.8129E-03	-3.9087E-04	2.6766E-03
810	-4.0042E-02	-3.5711E-03	-4.5795E-03	-3.57E-03	4.03E-02	83.48	-2.3014E-04	-6.3483E-04	3.0429E-03
900	-4.5747E-02	-2.8994E-03	-5.2620E-03	-2.90E-03	4.60E-02	83.44	-8.2841E-04	-3.7162E-03	-3.6448E-03
902	-4.5580E-02	-9.7482E-02	-1.9687E-02	-9.75E-02	4.96E-02	66.64	-6.3568E-03	-3.9069E-03	-3.1375E-03
904	-4.4193E-02	-1.5279E-01	-2.4476E-02	-1.53E-01	5.05E-02	61.02	-8.7606E-03	-3.6782E-03	-1.1801E-03
906	-4.2381E-02	-1.5261E-01	-2.3286E-02	-1.53E-01	4.84E-02	61.21	-8.7349E-03	-3.3073E-03	9.8497E-04
908	-4.0371E-02	-9.7216E-02	-1.4523E-02	-9.72E-02	4.29E-02	70.21	-6.3525E-03	-2.8176E-03	2.6349E-03
910	-3.8471E-02	-2.8382E-03	-4.5773E-03	-2.84E-03	3.87E-02	83.21	-8.2585E-04	-2.1700E-03	3.0326E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 2

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	100	105	125	105	200	100	110	130	130	360	328	109
DISP	-5.39E-02	-1.84E-01	-5.43E-02	-1.40E-02	-5.16E-03	-6.02E-03	0.00E+00	0.00E+00	3.08E-05	1.15E-03	3.62E-05	3.78E-03

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SEISMIC = 3 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 33

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 3

NODE NUMBER	TRANSLATIONS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ	NODE TYPE
100	-5.3069E-02	0.0000E+00	0.0000E+00	0.00E+00	5.31E-02	-90.00	-3.3536E-03	-6.8920E-04	-5.5052E-03	
101	-5.0474E-02	-5.6527E-02	-1.9099E-02	-5.65E-02	5.40E-02	69.27	-9.9774E-03	-1.2776E-03	-5.5454E-03	
102	-4.7874E-02	-1.0764E-01	-3.2532E-02	-1.08E-01	5.79E-02	55.80	-1.8913E-03	-5.6404E-04	-4.5662E-03	
103	-4.1401E-02	-1.4737E-01	-4.9708E-02	-1.47E-01	6.47E-02	39.79	-1.4011E-02	-8.1617E-04	-3.4279E-03	
104	-3.4926E-02	-1.7448E-01	-5.2683E-02	-1.74E-01	6.32E-02	33.54	-4.8351E-03	-1.8087E-04	-1.7485E-03	
105	-2.7067E-02	-1.8215E-01	-6.1496E-02	-1.82E-01	6.72E-02	23.76	-1.5542E-02	-1.2241E-04	-2.9514E-05	
106	-1.9212E-02	-1.7469E-01	-5.3069E-02	-1.75E-01	5.64E-02	19.90	-4.8497E-03	-6.8708E-04	1.1991E-03	
107	-1.2564E-02	-1.4783E-01	-5.0460E-02	-1.48E-01	5.20E-02	13.98	-1.4045E-02	-9.0424E-04	2.3345E-03	
108	-5.9280E-03	-1.0809E-01	-3.3292E-02	-1.08E-01	3.38E-02	10.10	-1.9213E-03	-1.6330E-03	3.1392E-03	
109	-2.9638E-03	-5.6990E-02	-1.9824E-02	-5.70E-02	2.00E-02	8.50	-1.0013E-02	-1.5908E-03	3.7986E-03	
110	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	-3.3489E-03	-1.9157E-03	3.6936E-03	
120	-4.0946E-02	0.0000E+00	-3.2937E-04	0.00E+00	4.09E-02	89.54	-5.0918E-03	-9.8773E-04	-4.8490E-03	
121	-3.9114E-02	-4.9355E-02	-1.9106E-02	-4.94E-02	4.35E-02	63.97	6.4778E-04	-1.1543E-03	-4.8949E-03	
122	-3.7891E-02	-9.4689E-02	-3.2603E-02	-9.47E-02	5.00E-02	49.29	-2.0782E-03	-6.9345E-04	-3.9879E-03	
123	-3.4115E-02	-1.2888E-01	-4.9718E-02	-1.29E-01	6.03E-02	34.46	-3.2589E-03	-7.4668E-04	-3.0127E-03	
124	-3.0946E-02	-1.5325E-01	-5.2791E-02	-1.53E-01	6.12E-02	30.38	-4.7829E-03	-2.9114E-04	-1.5155E-03	
125	-2.6974E-02	-1.5913E-01	-6.1508E-02	-1.59E-01	6.72E-02	23.68	-4.7856E-03	-3.1478E-05	-1.1599E-05	
126	-2.3102E-02	-1.5325E-01	-5.3177E-02	-1.53E-01	5.80E-02	23.48	-4.8014E-03	-5.9746E-04	1.0280E-03	
127	-2.0086E-02	-1.2887E-01	-5.0471E-02	-1.29E-01	5.43E-02	21.70	-3.2943E-03	-9.1809E-04	1.9925E-03	
128	-1.6618E-02	-9.4680E-02	-3.3365E-02	-9.47E-02	3.73E-02	26.48	-2.1228E-03	-1.6402E-03	2.7188E-03	
129	-1.5700E-02	-4.9350E-02	-1.9832E-02	-4.93E-02	2.53E-02	38.37	6.0334E-04	-1.6466E-03	3.2384E-03	
130	-1.3981E-02	0.0000E+00	-3.2941E-04	0.00E+00	1.40E-02	88.65	-5.0869E-03	-1.6449E-03	3.2869E-03	
200	-3.2707E-02	-8.0872E-04	-4.1187E-02	-8.09E-04	5.26E-02	38.45	-6.0239E-03	-1.2713E-03	-4.5551E-03	
202	-3.1753E-02	-1.0801E-01	-8.5193E-02	-1.08E-01	9.09E-02	20.44	-1.0706E-02	-1.1837E-03	-3.8922E-03	
204	-2.9240E-02	-1.7485E-01	-1.0784E-01	-1.75E-01	1.12E-01	15.17	-1.2426E-02	-4.3568E-04	-1.4682E-03	
206	-2.6651E-02	-1.7507E-01	-1.0794E-01	-1.75E-01	1.11E-01	13.87	-1.2431E-02	-5.2565E-04	9.3844E-04	
208	-2.5407E-02	-1.0846E-01	-8.5263E-02	-1.08E-01	8.90E-02	16.59	-1.0706E-02	-1.3315E-03	2.4921E-03	
210	-2.5232E-02	-8.0857E-04	-4.1138E-02	-8.09E-04	4.83E-02	31.52	-6.0152E-03	-1.6679E-03	2.8110E-03	
220	-2.6103E-02	-8.0398E-04	-4.1183E-02	-8.04E-04	4.88E-02	32.37	-6.4906E-03	-1.7170E-03	-3.9724E-03	
222	-2.6107E-02	-9.5049E-02	-8.5193E-02	-9.50E-02	8.91E-02	17.04	-1.0712E-02	-1.2192E-03	-3.3941E-03	
224	-2.6886E-02	-1.5361E-01	-1.0784E-01	-1.54E-01	1.11E-01	14.00	-1.2434E-02	-4.6692E-04	-1.2757E-03	
226	-2.9048E-02	-1.5361E-01	-1.0794E-01	-1.54E-01	1.12E-01	15.06	-1.2438E-02	-5.0544E-04	8.1092E-04	
228	-3.1284E-02	-9.5040E-02	-8.5264E-02	-9.50E-02	9.08E-02	20.15	-1.0713E-02	-1.3511E-03	2.1704E-03	
230	-3.2316E-02	-8.0290E-04	-4.1133E-02	-8.03E-04	5.23E-02	38.15	-6.4820E-03	-1.1774E-03	2.4909E-03	
300	-1.2362E-02	-1.1669E-03	-8.0716E-02	-1.17E-03	8.17E-02	8.71	-3.0836E-03	-2.2994E-03	-5.5186E-03	
301	-1.1656E-02	-5.6315E-02	-1.0059E-01	-5.63E-02	1.01E-01	6.61	-1.8561E-03	-2.2022E-03	-5.5775E-03	
302	-1.5001E-02	-1.0820E-01	-1.2282E-01	-1.08E-01	1.24E-01	6.96	-3.9342E-03	-2.1757E-03	-4.5569E-03	
303	-1.7385E-02	-1.4711E-01	-1.3227E-01	-1.47E-01	1.33E-01	7.49	-5.9242E-03	-1.2797E-03	-3.4314E-03	
304	-2.2062E-02	-1.7504E-01	-1.4760E-01	-1.75E-01	1.49E-01	8.50	-6.6236E-03	-8.1768E-04	-1.7467E-03	
305	-2.6934E-02	-1.8187E-01	-1.4408E-01	-1.82E-01	1.47E-01	10.59	-7.4380E-03	-1.9958E-05	-2.9738E-05	
306	-3.2677E-02	-1.7525E-01	-1.4757E-01	-1.75E-01	1.51E-01	12.49	-6.6402E-03	-5.6779E-04	1.1997E-03	
307	-3.9213E-02	-1.4757E-01	-1.3221E-01	-1.48E-01	1.38E-01	16.52	-5.9578E-03	-1.3061E-03	2.3319E-03	
308	-4.4146E-02	-1.0865E-01	-1.2274E-01	-1.09E-01	1.30E-01	19.78	-3.9660E-03	-1.4943E-03	3.1431E-03	
309	-4.8749E-02	-5.6773E-02	-1.0048E-01	-5.68E-02	1.12E-01	25.88	-1.8914E-03	-2.2703E-03	3.7811E-03	
310	-4.9192E-02	-1.1670E-03	-8.0605E-02	-1.17E-03	9.44E-02	31.40	-3.0773E-03	-1.6885E-03	3.6572E-03	
320	-1.1343E-02	-1.1585E-03	-8.0488E-02	-1.16E-03	8.13E-02	8.02	-5.0010E-03	-2.3895E-03	-4.7723E-03	

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321	-1.1334E-02	-4.9296E-02	-1.0054E-01	-4.93E-02	1.01E-01	6.43	-2.6029E-03	-2.2230E-03	-4.9482E-03
322	-1.3835E-02	-9.5227E-02	-1.2294E-01	-9.52E-02	1.24E-01	6.42	-4.6127E-03	-2.1700E-03	-3.9705E-03
323	-1.6570E-02	-1.2877E-01	-1.3218E-01	-1.29E-01	1.33E-01	7.15	-6.6342E-03	-1.2843E-03	-3.0172E-03
324	-2.1337E-02	-1.5379E-01	-1.4774E-01	-1.54E-01	1.49E-01	8.22	-7.3963E-03	-8.1709E-04	-1.5131E-03
325	-2.7038E-02	-1.5900E-01	-1.4398E-01	-1.59E-01	1.46E-01	10.64	-8.1584E-03	-2.0692E-05	-1.2212E-05
326	-3.3530E-02	-1.5378E-01	-1.4771E-01	-1.54E-01	1.51E-01	12.79	-7.4135E-03	-5.6539E-04	1.0280E-03
327	-4.0479E-02	-1.2877E-01	-1.3212E-01	-1.29E-01	1.38E-01	17.03	-6.6690E-03	-1.3117E-03	1.9914E-03
328	-4.5240E-02	-9.5218E-02	-1.2285E-01	-9.52E-02	1.31E-01	20.22	-4.6496E-03	-1.4805E-03	2.7178E-03
329	-5.0059E-02	-4.9293E-02	-1.0044E-01	-4.93E-02	1.12E-01	26.49	-2.6459E-03	-2.3119E-03	3.2326E-03
330	-5.0083E-02	-1.1567E-03	-8.0379E-02	-1.16E-03	9.47E-02	31.93	-4.9949E-03	-1.6333E-03	3.1268E-03
351	-1.0029E-02	-6.5451E-03	-8.0671E-02	-6.55E-03	8.13E-02	7.09	1.1158E-03	-2.0550E-03	-4.9970E-03
352	-1.3932E-02	-1.0588E-01	-1.2287E-01	-1.06E-01	1.24E-01	6.47	-2.3023E-03	-1.7280E-03	-4.1420E-03
354	-2.2560E-02	-1.6658E-01	-1.4766E-01	-1.67E-01	1.49E-01	8.69	-5.2629E-03	-7.9339E-04	-1.5856E-03
356	-3.3600E-02	-1.6678E-01	-1.4763E-01	-1.67E-01	1.51E-01	12.82	-5.2778E-03	-6.9387E-04	1.2620E-03
358	-4.3475E-02	-1.0629E-01	-1.2279E-01	-1.06E-01	1.30E-01	19.50	-2.3331E-03	-1.3615E-03	3.3077E-03
360	-4.6994E-02	-6.5397E-03	-8.0560E-02	-6.54E-03	9.33E-02	30.26	1.1158E-03	-1.5638E-03	3.9011E-03
361	-8.7155E-03	-5.3757E-03	-8.0617E-02	-5.38E-03	8.11E-02	6.17	-1.4155E-03	-2.0009E-03	-4.5912E-03
362	-1.3309E-02	-1.0145E-01	-1.2290E-01	-1.01E-01	1.24E-01	6.18	-4.7789E-03	-1.7000E-03	-3.8172E-03
364	-2.2746E-02	-1.5748E-01	-1.4770E-01	-1.57E-01	1.49E-01	8.76	-7.7532E-03	-6.4107E-04	-1.4580E-03
366	-3.4162E-02	-1.5762E-01	-1.4767E-01	-1.58E-01	1.52E-01	13.03	-7.7691E-03	-4.7469E-04	1.2866E-03
368	-4.3738E-02	-1.0174E-01	-1.2282E-01	-1.02E-01	1.30E-01	19.60	-4.8115E-03	-1.2478E-03	3.3810E-03
370	-4.6808E-02	-5.3745E-03	-8.0507E-02	-5.37E-03	9.31E-02	30.17	-1.4133E-03	-1.4892E-03	4.0282E-03
371	-8.8910E-03	-6.4843E-03	-8.0557E-02	-6.48E-03	8.10E-02	6.30	-1.2206E-03	-2.1293E-03	-4.5746E-03
372	-1.3027E-02	-9.8939E-02	-1.2293E-01	-9.89E-02	1.24E-01	6.05	-7.2338E-03	-1.8321E-03	-3.8173E-03
374	-2.2218E-02	-1.5512E-01	-1.4772E-01	-1.55E-01	1.49E-01	8.55	-1.0208E-02	-8.6402E-04	-1.4530E-03
376	-3.4017E-02	-1.5512E-01	-1.4769E-01	-1.55E-01	1.52E-01	12.97	-1.0225E-02	-5.9592E-04	1.1830E-03
378	-4.4296E-02	-9.8954E-02	-1.2284E-01	-9.90E-02	1.31E-01	19.83	-7.2685E-03	-1.2530E-03	3.1235E-03
380	-4.7936E-02	-6.4811E-03	-8.0446E-02	-6.48E-03	9.36E-02	30.79	-1.2204E-03	-1.5067E-03	3.6659E-03
400	-5.0205E-02	-6.3393E-03	-8.2368E-05	-6.34E-03	5.02E-02	89.91	9.3404E-04	-7.2376E-04	-4.9887E-03
402	-4.5327E-02	-1.0427E-01	-3.2556E-02	-1.04E-01	5.58E-02	54.31	-2.5560E-03	-5.5378E-04	-4.1467E-03
404	-3.4227E-02	-1.6497E-01	-5.2720E-02	-1.65E-01	6.29E-02	32.99	-5.5134E-03	-1.8208E-04	-1.5870E-03
406	-2.0785E-02	-1.6517E-01	-5.3106E-02	-1.65E-01	5.70E-02	21.37	-5.5283E-03	-6.8602E-04	1.2619E-03
408	-9.4409E-03	-1.0468E-01	-3.3317E-02	-1.05E-01	3.46E-02	15.82	-2.5867E-03	-1.4961E-03	3.3063E-03
410	-4.0628E-03	-6.3357E-03	-8.2379E-05	-6.34E-03	4.06E-03	88.84	9.3433E-04	-1.6849E-03	3.8987E-03
500	-4.7474E-02	-4.6775E-03	-1.6473E-04	-4.68E-03	4.75E-02	89.80	-1.6254E-03	-8.8653E-04	-4.5995E-03
502	-4.3054E-02	-9.9679E-02	-3.2576E-02	-9.97E-02	5.40E-02	52.89	-4.6994E-03	-6.8677E-04	-3.8197E-03
504	-3.3527E-02	-1.5571E-01	-5.2750E-02	-1.56E-01	6.25E-02	32.44	-7.6732E-03	-2.5186E-04	-1.4591E-03
506	-2.2084E-02	-1.5584E-01	-5.3137E-02	-1.56E-01	5.75E-02	22.57	-7.6890E-03	-4.6342E-04	1.2869E-03
508	-1.2480E-02	-9.9964E-02	-3.3337E-02	-1.00E-01	3.56E-02	20.52	-4.7319E-03	-1.2021E-03	3.3816E-03
510	-7.5763E-03	-4.6780E-03	-1.6475E-04	-4.68E-03	7.58E-03	88.75	-1.6236E-03	-1.4604E-03	4.0045E-03
600	-4.4345E-02	-6.3608E-03	-2.4706E-04	-6.36E-03	4.43E-02	89.68	-1.3316E-03	-1.0324E-03	-4.6474E-03
602	-4.0567E-02	-9.7630E-02	-3.2592E-02	-9.76E-02	5.20E-02	51.22	-6.9542E-03	-9.0194E-04	-3.8290E-03
604	-3.2416E-02	-1.5381E-01	-5.2774E-02	-1.54E-01	6.19E-02	31.56	-9.9293E-03	-4.8159E-04	-1.4547E-03
606	-2.2810E-02	-1.5381E-01	-5.3160E-02	-1.54E-01	5.78E-02	23.22	-9.9460E-03	-3.1519E-04	1.1834E-03
608	-1.4806E-02	-9.7644E-02	-3.3353E-02	-9.76E-02	3.65E-02	23.94	-6.9887E-03	-9.3197E-04	3.1265E-03
610	-1.0698E-02	-6.3569E-03	-2.4710E-04	-6.36E-03	1.07E-02	88.68	-1.3314E-03	-1.4141E-03	3.7651E-03
700	-3.1504E-02	-7.0423E-03	-4.1192E-02	-7.04E-03	5.19E-02	37.41	6.2137E-04	-1.2159E-03	-4.0692E-03
702	-3.1124E-02	-1.0570E-01	-8.5204E-02	-1.06E-01	9.07E-02	20.07	-2.3011E-03	-1.0235E-03	-3.4903E-03
704	-2.9872E-02	-1.6639E-01	-1.0785E-01	-1.66E-01	1.12E-01	15.48	-5.2615E-03	-6.0468E-04	-1.3148E-03
706	-2.8430E-02	-1.6659E-01	-1.0795E-01	-1.67E-01	1.12E-01	14.75	-5.2764E-03	-7.9936E-04	1.0112E-03
708	-2.7278E-02	-1.0610E-01	-8.5275E-02	-1.06E-01	8.95E-02	17.74	-2.3318E-03	-1.3358E-03	2.6863E-03
710	-2.6700E-02	-7.0353E-03	-4.1142E-02	-7.04E-03	4.90E-02	32.98	6.2160E-04	-1.5535E-03	3.0632E-03
800	-3.0051E-02	-3.6327E-03	-4.1193E-02	-3.63E-03	5.10E-02	36.11	-2.3470E-03	-1.2705E-03	-3.6715E-03
802	-3.0099E-02	-1.0127E-01	-8.5208E-02	-1.01E-01	9.04E-02	19.46	-4.7777E-03	-1.0341E-03	-3.1659E-03
804	-2.9861E-02	-1.5730E-01	-1.0786E-01	-1.57E-01	1.12E-01	15.47	-7.7518E-03	-3.9270E-04	-1.1902E-03
806	-2.9535E-02	-1.5743E-01	-1.0796E-01	-1.57E-01	1.12E-01	15.30	-7.7676E-03	-3.9759E-04	1.0537E-03
808	-2.9155E-02	-1.0155E-01	-8.5279E-02	-1.02E-01	9.01E-02	18.87	-4.8103E-03	-1.0552E-03	2.8035E-03

810	-2.8853E-02	-3.6324E-03	-4.1143E-02	-3.63E-03	5.03E-02	35.04	-2.3438E-03	-1.3156E-03	3.2305E-03
900	-2.7968E-02	-6.9419E-03	-4.1190E-02	-6.94E-03	4.98E-02	34.18	-1.0213E-03	-1.5623E-03	-3.7334E-03
902	-2.8214E-02	-9.8759E-02	-8.5204E-02	-9.88E-02	8.98E-02	18.32	-7.2325E-03	-1.3670E-03	-3.2072E-03
904	-2.8734E-02	-1.5494E-01	-1.0785E-01	-1.55E-01	1.12E-01	14.92	-1.0206E-02	-8.2410E-04	-1.2035E-03
906	-2.9599E-02	-1.5494E-01	-1.0795E-01	-1.55E-01	1.12E-01	15.33	-1.0223E-02	-5.6319E-04	9.5876E-04
908	-3.0389E-02	-9.8773E-02	-8.5275E-02	-9.88E-02	9.05E-02	19.61	-7.2672E-03	-9.7213E-04	2.5630E-03
910	-3.0684E-02	-6.9362E-03	-4.1140E-02	-6.94E-03	5.13E-02	36.72	-1.0210E-03	-1.1853E-03	2.9657E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 3

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	100	105	324	105	320	301	110	130	110	360	305	370
DISP	-5.31E-02	-1.82E-01	-1.48E-01	-1.55E-02	-2.39E-03	-5.58E-03	0.00E+00	0.00E+00	0.00E+00	1.12E-03	-2.00E-05	4.03E-03

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 4

NODE NUMBER	----TRANSLATIONS---- X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	----ROTATIONS---- XX	YY	ZZ	NODE TYPE
100	-5.3069E-02	0.0000E+00	0.0000E+00	0.00E+00	5.31E-02	-90.00	-3.3536E-03	-6.8920E-04	-5.5052E-03	
101	-5.0474E-02	-5.6527E-02	-1.9099E-02	-5.65E-02	5.40E-02	69.27	-9.9774E-03	-1.2776E-03	-5.5454E-03	
102	-4.7874E-02	-1.0764E-01	-3.2532E-02	-1.08E-01	5.79E-02	55.80	-1.8913E-03	-5.6404E-04	-4.5662E-03	
103	-4.1401E-02	-1.4737E-01	-4.9708E-02	-1.47E-01	6.47E-02	39.79	-1.4011E-02	-8.1617E-04	-3.4279E-03	
104	-3.4926E-02	-1.7448E-01	-5.2683E-02	-1.74E-01	6.32E-02	33.54	-4.8351E-03	-1.8087E-04	-1.7485E-03	
105	-2.7067E-02	-1.8215E-01	-6.1496E-02	-1.82E-01	6.72E-02	23.76	-1.5542E-02	-1.2241E-04	-2.9514E-05	
106	-1.9212E-02	-1.7469E-01	-5.3069E-02	-1.75E-01	5.64E-02	19.90	-4.8497E-03	-6.8708E-04	1.1991E-03	
107	-1.2564E-02	-1.4783E-01	-5.0460E-02	-1.48E-01	5.20E-02	13.98	-1.4045E-02	-9.0424E-04	2.3345E-03	
108	-5.9280E-03	-1.0809E-01	-3.3292E-02	-1.08E-01	3.38E-02	10.10	-1.9213E-03	-1.6330E-03	3.1392E-03	
109	-2.9638E-03	-5.6990E-02	-1.9824E-02	-5.70E-02	2.00E-02	8.50	-1.0013E-02	-1.5908E-03	3.7986E-03	
110	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	-3.3489E-03	-1.9157E-03	3.6936E-03	
120	-4.0946E-02	0.0000E+00	-3.2937E-04	0.00E+00	4.09E-02	89.54	-5.0918E-03	-9.8773E-04	-4.8490E-03	
121	-3.9114E-02	-4.9355E-02	-1.9106E-02	-4.94E-02	4.35E-02	63.97	6.4778E-04	-1.1543E-03	-4.8949E-03	
122	-3.7891E-02	-9.4689E-02	-3.2603E-02	-9.47E-02	5.00E-02	49.29	-2.0782E-03	-6.9345E-04	-3.9879E-03	
123	-3.4115E-02	-1.2888E-01	-4.9718E-02	-1.29E-01	6.03E-02	34.46	-3.2589E-03	-7.4668E-04	-3.0127E-03	
124	-3.0946E-02	-1.5325E-01	-5.2791E-02	-1.53E-01	6.12E-02	30.38	-4.7829E-03	-2.9114E-04	-1.5155E-03	
125	-2.6974E-02	-1.5913E-01	-6.1508E-02	-1.59E-01	6.72E-02	23.68	-4.7856E-03	-3.1478E-05	-1.1599E-05	
126	-2.3102E-02	-1.5325E-01	-5.3177E-02	-1.53E-01	5.80E-02	23.48	-4.8014E-03	-5.9746E-04	1.0280E-03	
127	-2.0086E-02	-1.2887E-01	-5.0471E-02	-1.29E-01	5.43E-02	21.70	-3.2943E-03	-9.1809E-04	1.9925E-03	
128	-1.6618E-02	-9.4680E-02	-3.3365E-02	-9.47E-02	3.73E-02	26.48	-2.1228E-03	-1.6402E-03	2.7188E-03	
129	-1.5700E-02	-4.9350E-02	-1.9832E-02	-4.93E-02	2.53E-02	38.37	6.0334E-04	-1.6466E-03	3.2384E-03	
130	-1.3981E-02	0.0000E+00	-3.2941E-04	0.00E+00	1.40E-02	88.65	-5.0869E-03	-1.6449E-03	3.2869E-03	
200	-3.2707E-02	-8.0872E-04	-4.1187E-02	-8.09E-04	5.26E-02	38.45	-6.0239E-03	-1.2713E-03	-4.5551E-03	
202	-3.1753E-02	-1.0801E-01	-8.5193E-02	-1.08E-01	9.09E-02	20.44	-1.0706E-02	-1.1837E-03	-3.8922E-03	
204	-2.9240E-02	-1.7485E-01	-1.0784E-01	-1.75E-01	1.12E-01	15.17	-1.2426E-02	-4.3568E-04	-1.4682E-03	
206	-2.6651E-02	-1.7507E-01	-1.0794E-01	-1.75E-01	1.11E-01	13.87	-1.2431E-02	-5.2565E-04	9.3844E-04	
208	-2.5407E-02	-1.0846E-01	-8.5263E-02	-1.08E-01	8.90E-02	16.59	-1.0706E-02	-1.3315E-03	2.4921E-03	

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210	-2.5232E-02	-8.0857E-04	-4.1138E-02	-8.09E-04	4.83E-02	31.52	-6.0152E-03	-1.6679E-03	2.8110E-03
220	-2.6103E-02	-8.0398E-04	-4.1183E-02	-8.04E-04	4.88E-02	32.37	-6.4906E-03	-1.7170E-03	-3.9724E-03
222	-2.6107E-02	-9.5049E-02	-8.5193E-02	-9.50E-02	8.91E-02	17.04	-1.0712E-02	-1.2192E-03	-3.3941E-03
224	-2.6886E-02	-1.5361E-01	-1.0784E-01	-1.54E-01	1.11E-01	14.00	-1.2434E-02	-4.6692E-04	-1.2757E-03
226	-2.9048E-02	-1.5361E-01	-1.0794E-01	-1.54E-01	1.12E-01	15.06	-1.2438E-02	-5.0544E-04	8.1092E-04
228	-3.1284E-02	-9.5040E-02	-8.5264E-02	-9.50E-02	9.08E-02	20.15	-1.0713E-02	-1.3511E-03	2.1704E-03
230	-3.2316E-02	-8.0290E-04	-4.1133E-02	-8.03E-04	5.23E-02	38.15	-6.4820E-03	-1.1774E-03	2.4909E-03
300	-1.2362E-02	-1.1669E-03	-8.0716E-02	-1.17E-03	8.17E-02	8.71	-3.0836E-03	-2.2994E-03	-5.5186E-03
301	-1.1656E-02	-5.6315E-02	-1.0059E-01	-5.63E-02	1.01E-01	6.61	-1.8561E-03	-2.2022E-03	-5.5775E-03
302	-1.5001E-02	-1.0820E-01	-1.2282E-01	-1.08E-01	1.24E-01	6.96	-3.9342E-03	-2.1757E-03	-4.5569E-03
303	-1.7385E-02	-1.4711E-01	-1.3227E-01	-1.47E-01	1.33E-01	7.49	-5.9242E-03	-1.2797E-03	-3.4314E-03
304	-2.2062E-02	-1.7504E-01	-1.4760E-01	-1.75E-01	1.49E-01	8.50	-6.6236E-03	-8.1768E-04	-1.7467E-03
305	-2.6934E-02	-1.8187E-01	-1.4408E-01	-1.82E-01	1.47E-01	10.59	-7.4380E-03	-1.9958E-05	-2.9738E-05
306	-3.2677E-02	-1.7525E-01	-1.4757E-01	-1.75E-01	1.51E-01	12.49	-6.6402E-03	-5.6779E-04	1.1997E-03
307	-3.9213E-02	-1.4757E-01	-1.3221E-01	-1.48E-01	1.38E-01	16.52	-5.9578E-03	-1.3061E-03	2.3319E-03
308	-4.4146E-02	-1.0865E-01	-1.2274E-01	-1.09E-01	1.30E-01	19.78	-3.9660E-03	-1.4943E-03	3.1431E-03
309	-4.8749E-02	-5.6773E-02	-1.0048E-01	-5.68E-02	1.12E-01	25.88	-1.8914E-03	-2.2703E-03	3.7811E-03
310	-4.9192E-02	-1.1670E-03	-8.0605E-02	-1.17E-03	9.44E-02	31.40	-3.0773E-03	-1.6885E-03	3.6572E-03
320	-1.1343E-02	-1.1585E-03	-8.0488E-02	-1.16E-03	8.13E-02	8.02	-5.0010E-03	-2.3895E-03	-4.7723E-03
321	-1.1334E-02	-4.9296E-02	-1.0054E-01	-4.93E-02	1.01E-01	6.43	-2.6029E-03	-2.2230E-03	-4.9482E-03
322	-1.3835E-02	-9.5227E-02	-1.2294E-01	-9.52E-02	1.24E-01	6.42	-4.6127E-03	-2.1700E-03	-3.9705E-03
323	-1.6570E-02	-1.2877E-01	-1.3218E-01	-1.29E-01	1.33E-01	7.15	-6.6342E-03	-1.2843E-03	-3.0172E-03
324	-2.1337E-02	-1.5379E-01	-1.4774E-01	-1.54E-01	1.49E-01	8.22	-7.3963E-03	-8.1709E-04	-1.5131E-03
325	-2.7038E-02	-1.5900E-01	-1.4398E-01	-1.59E-01	1.46E-01	10.64	-8.1584E-03	-2.0692E-05	-1.2212E-05
326	-3.3530E-02	-1.5378E-01	-1.4771E-01	-1.54E-01	1.51E-01	12.79	-7.4135E-03	-5.6539E-04	1.0280E-03
327	-4.0479E-02	-1.2877E-01	-1.3212E-01	-1.29E-01	1.38E-01	17.03	-6.6690E-03	-1.3117E-03	1.9914E-03
328	-4.5240E-02	-9.5218E-02	-1.2285E-01	-9.52E-02	1.31E-01	20.22	-4.6496E-03	-1.4805E-03	2.7178E-03
329	-5.0059E-02	-4.9293E-02	-1.0044E-01	-4.93E-02	1.12E-01	26.49	-2.6459E-03	-2.3119E-03	3.2326E-03
330	-5.0083E-02	-1.1567E-03	-8.0379E-02	-1.16E-03	9.47E-02	31.93	-4.9949E-03	-1.6333E-03	3.1268E-03
351	-1.0029E-02	-6.5451E-03	-8.0671E-02	-6.55E-03	8.13E-02	7.09	1.1158E-03	-2.0550E-03	-4.9970E-03
352	-1.3932E-02	-1.0588E-01	-1.2287E-01	-1.06E-01	1.24E-01	6.47	-2.3023E-03	-1.7280E-03	-4.1420E-03
354	-2.2560E-02	-1.6658E-01	-1.4766E-01	-1.67E-01	1.49E-01	8.69	-5.2629E-03	-7.9339E-04	-1.5856E-03
356	-3.3600E-02	-1.6678E-01	-1.4763E-01	-1.67E-01	1.51E-01	12.82	-5.2778E-03	-6.9387E-04	1.2620E-03
358	-4.3475E-02	-1.0629E-01	-1.2279E-01	-1.06E-01	1.30E-01	19.50	-2.3331E-03	-1.3615E-03	3.3077E-03
360	-4.6994E-02	-6.5397E-03	-8.0560E-02	-6.54E-03	9.33E-02	30.26	1.1158E-03	-1.5638E-03	3.9011E-03
361	-8.7155E-03	-5.3757E-03	-8.0617E-02	-5.38E-03	8.11E-02	6.17	-1.4155E-03	-2.0009E-03	-4.5912E-03
362	-1.3309E-02	-1.0145E-01	-1.2290E-01	-1.01E-01	1.24E-01	6.18	-4.7789E-03	-1.7000E-03	-3.8172E-03
364	-2.2746E-02	-1.5748E-01	-1.4770E-01	-1.57E-01	1.49E-01	8.76	-7.7532E-03	-6.4107E-04	-1.4580E-03
366	-3.4162E-02	-1.5762E-01	-1.4767E-01	-1.58E-01	1.52E-01	13.03	-7.7691E-03	-4.7469E-04	1.2866E-03
368	-4.3738E-02	-1.0174E-01	-1.2282E-01	-1.02E-01	1.30E-01	19.60	-4.8115E-03	-1.2478E-03	3.3810E-03
370	-4.6808E-02	-5.3745E-03	-8.0507E-02	-5.37E-03	9.31E-02	30.17	-1.4133E-03	-1.4892E-03	4.0282E-03
371	-8.8910E-03	-6.4843E-03	-8.0557E-02	-6.48E-03	8.10E-02	6.30	-1.2206E-03	-2.1293E-03	-4.5746E-03
372	-1.3027E-02	-9.8939E-02	-1.2293E-01	-9.89E-02	1.24E-01	6.05	-7.2338E-03	-1.8321E-03	-3.8173E-03
374	-2.2218E-02	-1.5512E-01	-1.4772E-01	-1.55E-01	1.49E-01	8.55	-1.0208E-02	-8.6402E-04	-1.4530E-03
376	-3.4017E-02	-1.5512E-01	-1.4769E-01	-1.55E-01	1.52E-01	12.97	-1.0225E-02	-5.9592E-04	1.1830E-03
378	-4.4296E-02	-9.8954E-02	-1.2284E-01	-9.90E-02	1.31E-01	19.83	-7.2685E-03	-1.2530E-03	3.1235E-03
380	-4.7936E-02	-6.4811E-03	-8.0446E-02	-6.48E-03	9.36E-02	30.79	-1.2204E-03	-1.5067E-03	3.6659E-03
400	-5.0205E-02	-6.3393E-03	-8.2368E-05	-6.34E-03	5.02E-02	89.91	9.3404E-04	-7.2376E-04	-4.9887E-03
402	-4.5327E-02	-1.0427E-01	-3.2556E-02	-1.04E-01	5.58E-02	54.31	-2.5560E-03	-5.5378E-04	-4.1467E-03
404	-3.4227E-02	-1.6497E-01	-5.2720E-02	-1.65E-01	6.29E-02	32.99	-5.5134E-03	-1.8208E-04	-1.5870E-03
406	-2.0785E-02	-1.6517E-01	-5.3106E-02	-1.65E-01	5.70E-02	21.37	-5.5283E-03	-6.8602E-04	1.2619E-03
408	-9.4409E-03	-1.0468E-01	-3.3317E-02	-1.05E-01	3.46E-02	15.82	-2.5867E-03	-1.4961E-03	3.3063E-03
410	-4.0628E-03	-6.3357E-03	-8.2379E-05	-6.34E-03	4.06E-03	88.84	9.3433E-04	-1.6849E-03	3.8987E-03
500	-4.7474E-02	-4.6775E-03	-1.6473E-04	-4.68E-03	4.75E-02	89.80	-1.6254E-03	-8.8653E-04	-4.5995E-03
502	-4.3054E-02	-9.9679E-02	-3.2576E-02	-9.97E-02	5.40E-02	52.89	-4.6994E-03	-6.8677E-04	-3.8197E-03
504	-3.3527E-02	-1.5571E-01	-5.2750E-02	-1.56E-01	6.25E-02	32.44	-7.6732E-03	-2.5186E-04	-1.4591E-03
506	-2.2084E-02	-1.5584E-01	-5.3137E-02	-1.56E-01	5.75E-02	22.57	-7.6890E-03	-4.6342E-04	1.2869E-03

508	-1.2480E-02	-9.9964E-02	-3.3337E-02	-1.00E-01	3.56E-02	20.52	-4.7319E-03	-1.2021E-03	3.3816E-03
510	-7.5763E-03	-4.6780E-03	-1.6475E-04	-4.68E-03	7.58E-03	88.75	-1.6236E-03	-1.4604E-03	4.0045E-03
600	-4.4345E-02	-6.3608E-03	-2.4706E-04	-6.36E-03	4.43E-02	89.68	-1.3316E-03	-1.0324E-03	-4.6474E-03
602	-4.0567E-02	-9.7630E-02	-3.2592E-02	-9.76E-02	5.20E-02	51.22	-6.9542E-03	-9.0194E-04	-3.8290E-03
604	-3.2416E-02	-1.5381E-01	-5.2774E-02	-1.54E-01	6.19E-02	31.56	-9.9293E-03	-4.8159E-04	-1.4547E-03
606	-2.2810E-02	-1.5381E-01	-5.3160E-02	-1.54E-01	5.78E-02	23.22	-9.9460E-03	-3.1519E-04	1.1834E-03
608	-1.4806E-02	-9.7644E-02	-3.3353E-02	-9.76E-02	3.65E-02	23.94	-6.9887E-03	-9.3197E-04	3.1265E-03
610	-1.0698E-02	-6.3569E-03	-2.4710E-04	-6.36E-03	1.07E-02	88.68	-1.3314E-03	-1.4141E-03	3.7651E-03
700	-3.1504E-02	-7.0423E-03	-4.1192E-02	-7.04E-03	5.19E-02	37.41	6.2137E-04	-1.2159E-03	-4.0692E-03
702	-3.1124E-02	-1.0570E-01	-8.5204E-02	-1.06E-01	9.07E-02	20.07	-2.3011E-03	-1.0235E-03	-3.4903E-03
704	-2.9872E-02	-1.6639E-01	-1.0785E-01	-1.66E-01	1.12E-01	15.48	-5.2615E-03	-6.0468E-04	-1.3148E-03
706	-2.8430E-02	-1.6659E-01	-1.0795E-01	-1.67E-01	1.12E-01	14.75	-5.2764E-03	-7.9936E-04	1.0112E-03
708	-2.7278E-02	-1.0610E-01	-8.5275E-02	-1.06E-01	8.95E-02	17.74	-2.3318E-03	-1.3358E-03	2.6863E-03
710	-2.6700E-02	-7.0353E-03	-4.1142E-02	-7.04E-03	4.90E-02	32.98	6.2160E-04	-1.5535E-03	3.0632E-03
800	-3.0051E-02	-3.6327E-03	-4.1193E-02	-3.63E-03	5.10E-02	36.11	-2.3470E-03	-1.2705E-03	-3.6715E-03
802	-3.0099E-02	-1.0127E-01	-8.5208E-02	-1.01E-01	9.04E-02	19.46	-4.7777E-03	-1.0341E-03	-3.1659E-03
804	-2.9861E-02	-1.5730E-01	-1.0786E-01	-1.57E-01	1.12E-01	15.47	-7.7518E-03	-3.9270E-04	-1.1902E-03
806	-2.9535E-02	-1.5743E-01	-1.0796E-01	-1.57E-01	1.12E-01	15.30	-7.7676E-03	-3.9759E-04	1.0537E-03
808	-2.9155E-02	-1.0155E-01	-8.5279E-02	-1.02E-01	9.01E-02	18.87	-4.8103E-03	-1.0552E-03	2.8035E-03
810	-2.8853E-02	-3.6324E-03	-4.1143E-02	-3.63E-03	5.03E-02	35.04	-2.3438E-03	-1.3156E-03	3.2305E-03
900	-2.7968E-02	-6.9419E-03	-4.1190E-02	-6.94E-03	4.98E-02	34.18	-1.0213E-03	-1.5623E-03	-3.7334E-03
902	-2.8214E-02	-9.8759E-02	-8.5204E-02	-9.88E-02	8.98E-02	18.32	-7.2325E-03	-1.3670E-03	-3.2072E-03
904	-2.8734E-02	-1.5494E-01	-1.0785E-01	-1.55E-01	1.12E-01	14.92	-1.0206E-02	-8.2410E-04	-1.2035E-03
906	-2.9599E-02	-1.5494E-01	-1.0795E-01	-1.55E-01	1.12E-01	15.33	-1.0223E-02	-5.6319E-04	9.5876E-04
908	-3.0389E-02	-9.8773E-02	-8.5275E-02	-9.88E-02	9.05E-02	19.61	-7.2672E-03	-9.7213E-04	2.5630E-03
910	-3.0684E-02	-6.9362E-03	-4.1140E-02	-6.94E-03	5.13E-02	36.72	-1.0210E-03	-1.1853E-03	2.9657E-03

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 4

	----MINIMUM TRANSLATIONS----			-----MINIMUM ROTATIONS------			----MAXIMUM TRANSLATIONS----			-----MAXIMUM ROTATIONS------		
	X	Y	Z	XX	YY	ZZ	X	Y	Z	XX	YY	ZZ
NODE	100	105	324	105	320	301	110	130	110	360	305	370
DISP	-5.31E-02	-1.82E-01	-1.48E-01	-1.55E-02	-2.39E-03	-5.58E-03	0.00E+00	0.00E+00	0.00E+00	1.12E-03	-2.00E-05	4.03E-03

SEISMIC = 5 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 35

.....SEISMIC NODE DISPLACEMENT ENVELOPE SUMMARY

SEIS CASE		----MINIMUM TRANSLATIONS---- X	Y	Z	-----MINIMUM ROTATIONS------ XX	YY	ZZ	----MAXIMUM TRANSLATIONS---- X	Y	Z	-----MAXIMUM ROTATIONS------ XX	YY	ZZ
1	NODE	100	105	125	105	200	100	109	210	130	360	328	109
	DISP	-5.39E-02	-1.84E-01	-5.43E-02	-1.40E-02	-5.16E-03	-6.02E-03	-4.10E-03	-3.98E-04	3.08E-05	1.15E-03	3.62E-05	3.78E-03
2	NODE	100	105	125	105	200	100	109	210	130	360	328	109
	DISP	-5.39E-02	-1.84E-01	-5.43E-02	-1.40E-02	-5.16E-03	-6.02E-03	-4.10E-03	-3.98E-04	3.08E-05	1.15E-03	3.62E-05	3.78E-03
3	NODE	100	105	324	105	320	301	109	230	400	360	305	370
	DISP	-5.31E-02	-1.82E-01	-1.48E-01	-1.55E-02	-2.39E-03	-5.58E-03	-2.96E-03	-8.03E-04	-8.24E-05	1.12E-03	-2.00E-05	4.03E-03

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  4 NODE       100       105       324       105       320       301       109       230       400       360       305       370
    DISP -5.31E-02 -1.82E-01 -1.48E-01 -1.55E-02 -2.39E-03 -5.58E-03 -2.96E-03 -8.03E-04 -8.24E-05  1.12E-03 -2.00E-05  4.03E-03
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SEISMIC = 6 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 36

.....SEISMIC NODE REACTIONS

NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	DEGREE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
100	1	0.0000E+00	-4.5398E+01	5.3325E+00	-4.54E+01	5.33E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	1	4.0501E+01	-4.4278E+01	6.1503E+00	-4.43E+01	4.10E+01	81.37	0.0000E+00	0.0000E+00	0.0000E+00
120	1	0.0000E+00	-4.0799E+01	0.0000E+00	-4.08E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	1	0.0000E+00	-4.0819E+01	0.0000E+00	-4.08E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	1	4.0501E+01	-1.7129E+02	1.1483E+01	-1.71E+02	4.21E+01	74.17	0.0000E+00	0.0000E+00	0.0000E+00
100	2	0.0000E+00	-5.4007E+01	-5.3325E+00	-5.40E+01	5.33E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	2	-4.0501E+01	-5.5127E+01	-6.1503E+00	-5.51E+01	4.10E+01	81.37	0.0000E+00	0.0000E+00	0.0000E+00
120	2	0.0000E+00	-4.6858E+01	0.0000E+00	-4.69E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	2	0.0000E+00	-4.6837E+01	0.0000E+00	-4.68E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	2	-4.0501E+01	-2.0283E+02	-1.1483E+01	-2.03E+02	4.21E+01	74.17	0.0000E+00	0.0000E+00	0.0000E+00
100	3	0.0000E+00	-3.3556E+01	2.0285E+01	-3.36E+01	2.03E+01	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	3	9.1196E+00	-3.3744E+01	2.0010E+01	-3.37E+01	2.20E+01	24.50	0.0000E+00	0.0000E+00	0.0000E+00
120	3	0.0000E+00	-2.8085E+01	0.0000E+00	-2.81E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	3	0.0000E+00	-2.8052E+01	0.0000E+00	-2.81E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	3	9.1196E+00	-1.2344E+02	4.0296E+01	-1.23E+02	4.13E+01	12.75	0.0000E+00	0.0000E+00	0.0000E+00
100	4	0.0000E+00	-6.5849E+01	-2.0285E+01	-6.58E+01	2.03E+01	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	4	-9.1196E+00	-6.5661E+01	-2.0010E+01	-6.57E+01	2.20E+01	24.50	0.0000E+00	0.0000E+00	0.0000E+00
120	4	0.0000E+00	-5.9571E+01	0.0000E+00	-5.96E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	4	0.0000E+00	-5.9604E+01	0.0000E+00	-5.96E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	4	-9.1196E+00	-2.5069E+02	-4.0296E+01	-2.51E+02	4.13E+01	12.75	0.0000E+00	0.0000E+00	0.0000E+00

SEISMIC = 7 POP T4 Pipe Bridge [02-16- 9 18:45:40]EDP-PAGE = 37

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
1	1	100	8.064E+00	6.900E-02	5.532E-18	-8.388E-03	0.000E+00	0.000E+00	-4.41E+02	0.00E+00	0.00E+00	0.061
			8.415E+00	1.914E-17	1.207E-17	2.506E-02	3.721E-17	2.321E-01	4.60E+02	4.09E-14	3.30E+02	0.110
		121	8.415E+00	6.900E-02	1.207E-17	2.506E-02	0.000E+00	0.000E+00	4.60E+02	0.00E+00	0.00E+00	0.064
1	2	100	-8.415E+00	6.900E-02	-1.207E-17	-2.506E-02	0.000E+00	0.000E+00	4.60E+02	0.00E+00	0.00E+00	0.064

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			-8.064E+00	1.594E-17	-5.532E-18	8.388E-03	-8.117E-17	2.321E-01	-4.41E+02	-8.93E-14	3.30E+02	0.107
		121	-8.064E+00	6.900E-02	-5.532E-18	8.388E-03	0.000E+00	0.000E+00	-4.41E+02	0.00E+00	0.00E+00	0.061
1	3	100	1.008E+01	6.900E-02	6.902E-18	1.859E-02	0.000E+00	0.000E+00	-5.51E+02	0.00E+00	0.00E+00	0.077
			1.043E+01	2.019E-17	1.344E-17	5.204E-02	4.643E-17	2.321E-01	5.70E+02	5.11E-14	3.30E+02	0.125
		121	1.043E+01	6.900E-02	1.344E-17	5.204E-02	0.000E+00	0.000E+00	5.70E+02	0.00E+00	0.00E+00	0.079
1	4	100	-1.043E+01	6.900E-02	-1.344E-17	-5.204E-02	0.000E+00	0.000E+00	5.70E+02	0.00E+00	0.00E+00	0.079
			-1.008E+01	1.489E-17	-6.902E-18	-1.859E-02	-9.039E-17	2.321E-01	-5.51E+02	-9.94E-14	3.30E+02	0.122
		121	-1.008E+01	6.900E-02	-6.902E-18	-1.859E-02	0.000E+00	0.000E+00	-5.51E+02	0.00E+00	0.00E+00	0.077
2	1	102	7.862E+00	6.900E-02	7.464E-18	1.182E-02	0.000E+00	0.000E+00	-4.30E+02	0.00E+00	0.00E+00	0.060
			8.383E+00	-6.119E-18	8.650E-18	-2.959E-03	5.021E-17	2.321E-01	4.58E+02	5.52E-14	3.30E+02	0.109
		121	8.383E+00	6.900E-02	8.650E-18	-2.959E-03	0.000E+00	0.000E+00	4.58E+02	0.00E+00	0.00E+00	0.064
2	2	102	-8.383E+00	6.900E-02	-8.650E-18	2.959E-03	0.000E+00	0.000E+00	4.58E+02	0.00E+00	0.00E+00	0.064
			-7.862E+00	-1.930E-17	-7.464E-18	-1.182E-02	-5.819E-17	2.321E-01	-4.30E+02	-6.40E-14	3.30E+02	0.105
		121	-7.862E+00	6.900E-02	-7.464E-18	-1.182E-02	0.000E+00	0.000E+00	-4.30E+02	0.00E+00	0.00E+00	0.060
2	3	102	9.858E+00	6.900E-02	8.837E-18	1.395E-02	0.000E+00	0.000E+00	-5.39E+02	0.00E+00	0.00E+00	0.075
			1.038E+01	-4.782E-18	1.002E-17	-8.293E-04	5.944E-17	2.321E-01	5.67E+02	6.54E-14	3.30E+02	0.125
		121	1.038E+01	6.900E-02	1.002E-17	-8.293E-04	0.000E+00	0.000E+00	5.67E+02	0.00E+00	0.00E+00	0.079
2	4	102	-1.038E+01	6.900E-02	-1.002E-17	8.293E-04	0.000E+00	0.000E+00	5.67E+02	0.00E+00	0.00E+00	0.079
			-9.858E+00	-2.064E-17	-8.837E-18	-1.395E-02	-6.742E-17	2.321E-01	-5.39E+02	-7.42E-14	3.30E+02	0.121
		121	-9.858E+00	6.900E-02	-8.837E-18	-1.395E-02	0.000E+00	0.000E+00	-5.39E+02	0.00E+00	0.00E+00	0.075
3	1	102	4.924E+00	6.900E-02	1.669E-18	-4.539E-03	0.000E+00	0.000E+00	-2.69E+02	0.00E+00	0.00E+00	0.037
			5.752E+00	1.770E-17	1.051E-17	1.251E-02	1.123E-17	2.321E-01	3.14E+02	1.23E-14	3.30E+02	0.089
		123	5.752E+00	6.900E-02	1.051E-17	1.251E-02	0.000E+00	0.000E+00	3.14E+02	0.00E+00	0.00E+00	0.044
3	2	102	-5.752E+00	6.900E-02	-1.051E-17	-1.251E-02	0.000E+00	0.000E+00	3.14E+02	0.00E+00	0.00E+00	0.044
			-4.924E+00	1.243E-18	-1.669E-18	4.539E-03	-7.073E-17	2.321E-01	-2.69E+02	-7.78E-14	3.30E+02	0.083
		123	-4.924E+00	6.900E-02	-1.669E-18	4.539E-03	0.000E+00	0.000E+00	-2.69E+02	0.00E+00	0.00E+00	0.037
3	3	102	6.204E+00	6.900E-02	2.643E-18	-5.926E-03	0.000E+00	0.000E+00	-3.39E+02	0.00E+00	0.00E+00	0.047
			7.032E+00	2.146E-17	1.149E-17	1.113E-02	1.778E-17	2.321E-01	3.84E+02	1.96E-14	3.30E+02	0.099
		123	7.032E+00	6.900E-02	1.149E-17	1.113E-02	0.000E+00	0.000E+00	3.84E+02	0.00E+00	0.00E+00	0.053
3	4	102	-7.032E+00	6.900E-02	-1.149E-17	-1.113E-02	0.000E+00	0.000E+00	3.84E+02	0.00E+00	0.00E+00	0.053
			-6.204E+00	-2.522E-18	-2.643E-18	5.926E-03	-7.728E-17	2.321E-01	-3.39E+02	-8.50E-14	3.30E+02	0.093
		123	-6.204E+00	6.900E-02	-2.643E-18	5.926E-03	0.000E+00	0.000E+00	-3.39E+02	0.00E+00	0.00E+00	0.047
4	1	104	4.565E+00	6.900E-02	6.378E-18	1.683E-02	0.000E+00	0.000E+00	-2.49E+02	0.00E+00	0.00E+00	0.035
			5.542E+00	2.408E-18	2.031E-18	-9.609E-03	4.290E-17	2.321E-01	3.03E+02	4.72E-14	3.30E+02	0.088
		123	5.542E+00	6.900E-02	2.031E-18	-9.609E-03	0.000E+00	0.000E+00	3.03E+02	0.00E+00	0.00E+00	0.042
4	2	104	-5.542E+00	6.900E-02	-2.031E-18	9.609E-03	0.000E+00	0.000E+00	3.03E+02	0.00E+00	0.00E+00	0.042
			-4.565E+00	-2.085E-17	-6.378E-18	-1.683E-02	-1.366E-17	2.321E-01	-2.49E+02	-1.50E-14	3.30E+02	0.080
		123	-4.565E+00	6.900E-02	-6.378E-18	-1.683E-02	0.000E+00	0.000E+00	-2.49E+02	0.00E+00	0.00E+00	0.035
4	3	104	5.715E+00	6.900E-02	7.305E-18	1.761E-02	0.000E+00	0.000E+00	-3.12E+02	0.00E+00	0.00E+00	0.043
			6.692E+00	6.158E-18	2.958E-18	-8.826E-03	4.914E-17	2.321E-01	3.66E+02	5.41E-14	3.30E+02	0.097
		123	6.692E+00	6.900E-02	2.958E-18	-8.826E-03	0.000E+00	0.000E+00	3.66E+02	0.00E+00	0.00E+00	0.051
4	4	104	-6.692E+00	6.900E-02	-2.958E-18	8.826E-03	0.000E+00	0.000E+00	3.66E+02	0.00E+00	0.00E+00	0.051
			-5.715E+00	-2.460E-17	-7.305E-18	-1.761E-02	-1.990E-17	2.321E-01	-3.12E+02	-2.19E-14	3.30E+02	0.089

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		123	-5.715E+00	6.900E-02	-7.305E-18	-1.761E-02	0.000E+00	0.000E+00	-3.12E+02	0.00E+00	0.00E+00	0.043
5	1	104	3.808E+00	6.900E-02	-2.131E-18	-8.886E-03	0.000E+00	0.000E+00	-2.08E+02	0.00E+00	0.00E+00	0.029
			4.897E+00	1.146E-17	5.769E-18	1.675E-02	-1.433E-17	2.321E-01	2.68E+02	-1.58E-14	3.30E+02	0.083
		125	4.897E+00	6.900E-02	5.769E-18	1.675E-02	0.000E+00	0.000E+00	2.68E+02	0.00E+00	0.00E+00	0.037
5	2	104	-4.897E+00	6.900E-02	-5.769E-18	-1.675E-02	0.000E+00	0.000E+00	2.68E+02	0.00E+00	0.00E+00	0.037
			-3.808E+00	-1.306E-17	2.131E-18	8.886E-03	-3.881E-17	2.321E-01	-2.08E+02	-4.27E-14	3.30E+02	0.075
		125	-3.808E+00	6.900E-02	2.131E-18	8.886E-03	0.000E+00	0.000E+00	-2.08E+02	0.00E+00	0.00E+00	0.029
5	3	104	4.142E-01	6.900E-02	-2.572E-18	-9.248E-03	0.000E+00	0.000E+00	-2.26E+01	0.00E+00	0.00E+00	0.003
			1.503E+00	1.614E-17	5.328E-18	1.639E-02	-1.730E-17	2.321E-01	8.21E+01	-1.90E-14	3.30E+02	0.057
		125	1.503E+00	6.900E-02	5.328E-18	1.639E-02	0.000E+00	0.000E+00	8.21E+01	0.00E+00	0.00E+00	0.011
5	4	104	-1.503E+00	6.900E-02	-5.328E-18	-1.639E-02	0.000E+00	0.000E+00	8.21E+01	0.00E+00	0.00E+00	0.011
			-4.142E-01	-1.773E-17	2.572E-18	9.248E-03	-3.584E-17	2.321E-01	-2.26E+01	-3.94E-14	3.30E+02	0.049
		125	-4.142E-01	6.900E-02	2.572E-18	9.248E-03	0.000E+00	0.000E+00	-2.26E+01	0.00E+00	0.00E+00	0.003
6	1	106	4.009E+00	6.900E-02	5.550E-18	1.655E-02	0.000E+00	0.000E+00	-2.19E+02	0.00E+00	0.00E+00	0.030
			5.098E+00	1.146E-17	-2.350E-18	-9.087E-03	3.733E-17	2.321E-01	2.79E+02	4.11E-14	3.30E+02	0.084
		125	5.098E+00	6.900E-02	-2.350E-18	-9.087E-03	0.000E+00	0.000E+00	2.79E+02	0.00E+00	0.00E+00	0.039
6	2	106	-5.098E+00	6.900E-02	2.350E-18	9.087E-03	0.000E+00	0.000E+00	2.79E+02	0.00E+00	0.00E+00	0.039
			-4.009E+00	-1.306E-17	-5.550E-18	-1.655E-02	1.581E-17	2.321E-01	-2.19E+02	1.74E-14	3.30E+02	0.076
		125	-4.009E+00	6.900E-02	-5.550E-18	-1.655E-02	0.000E+00	0.000E+00	-2.19E+02	0.00E+00	0.00E+00	0.030
6	3	106	1.726E-01	6.900E-02	5.098E-18	1.638E-02	0.000E+00	0.000E+00	-9.43E+00	0.00E+00	0.00E+00	0.001
			1.262E+00	1.619E-17	-2.801E-18	-9.264E-03	3.430E-17	2.321E-01	6.89E+01	3.77E-14	3.30E+02	0.055
		125	1.262E+00	6.900E-02	-2.801E-18	-9.264E-03	0.000E+00	0.000E+00	6.89E+01	0.00E+00	0.00E+00	0.010
6	4	106	-1.262E+00	6.900E-02	2.801E-18	9.264E-03	0.000E+00	0.000E+00	6.89E+01	0.00E+00	0.00E+00	0.010
			-1.726E-01	-1.778E-17	-5.098E-18	-1.638E-02	1.884E-17	2.321E-01	-9.43E+00	2.07E-14	3.30E+02	0.047
		125	-1.726E-01	6.900E-02	-5.098E-18	-1.638E-02	0.000E+00	0.000E+00	-9.43E+00	0.00E+00	0.00E+00	0.001
7	1	106	6.348E+00	6.900E-02	2.133E-18	-1.031E-02	0.000E+00	0.000E+00	-3.47E+02	0.00E+00	0.00E+00	0.048
			7.324E+00	2.409E-18	6.480E-18	1.613E-02	1.435E-17	2.321E-01	4.00E+02	1.58E-14	3.30E+02	0.101
		127	7.324E+00	6.900E-02	6.480E-18	1.613E-02	0.000E+00	0.000E+00	4.00E+02	0.00E+00	0.00E+00	0.056
7	2	106	-7.324E+00	6.900E-02	-6.480E-18	-1.613E-02	0.000E+00	0.000E+00	4.00E+02	0.00E+00	0.00E+00	0.056
			-6.348E+00	-2.085E-17	-2.133E-18	1.031E-02	-4.359E-17	2.321E-01	-3.47E+02	-4.79E-14	3.30E+02	0.094
		127	-6.348E+00	6.900E-02	-2.133E-18	1.031E-02	0.000E+00	0.000E+00	-3.47E+02	0.00E+00	0.00E+00	0.048
7	3	106	4.974E+00	6.900E-02	2.793E-18	-8.808E-03	0.000E+00	0.000E+00	-2.72E+02	0.00E+00	0.00E+00	0.038
			5.950E+00	6.209E-18	7.140E-18	1.763E-02	1.879E-17	2.321E-01	3.25E+02	2.07E-14	3.30E+02	0.091
		127	5.950E+00	6.900E-02	7.140E-18	1.763E-02	0.000E+00	0.000E+00	3.25E+02	0.00E+00	0.00E+00	0.045
7	4	106	-5.950E+00	6.900E-02	-7.140E-18	-1.763E-02	0.000E+00	0.000E+00	3.25E+02	0.00E+00	0.00E+00	0.045
			-4.974E+00	-2.465E-17	-2.793E-18	8.808E-03	-4.803E-17	2.321E-01	-2.72E+02	-5.28E-14	3.30E+02	0.084
		127	-4.974E+00	6.900E-02	-2.793E-18	8.808E-03	0.000E+00	0.000E+00	-2.72E+02	0.00E+00	0.00E+00	0.038
8	1	108	6.718E+00	6.900E-02	1.056E-17	1.221E-02	0.000E+00	0.000E+00	-3.67E+02	0.00E+00	0.00E+00	0.051
			7.546E+00	1.780E-17	1.709E-18	-4.842E-03	7.100E-17	2.321E-01	4.12E+02	7.81E-14	3.30E+02	0.103
		127	7.546E+00	6.900E-02	1.709E-18	-4.842E-03	0.000E+00	0.000E+00	4.12E+02	0.00E+00	0.00E+00	0.057
8	2	108	-7.546E+00	6.900E-02	-1.709E-18	4.842E-03	0.000E+00	0.000E+00	4.12E+02	0.00E+00	0.00E+00	0.057
			-6.718E+00	1.139E-18	-1.056E-17	-1.221E-02	-1.150E-17	2.321E-01	-3.67E+02	-1.26E-14	3.30E+02	0.097
		127	-6.718E+00	6.900E-02	-1.056E-17	-1.221E-02	0.000E+00	0.000E+00	-3.67E+02	0.00E+00	0.00E+00	0.051

8	3	108	5.459E+00	6.900E-02	1.153E-17	1.108E-02	0.000E+00	0.000E+00	-2.98E+02	0.00E+00	0.00E+00	0.041
			6.287E+00	2.156E-17	2.686E-18	-5.971E-03	7.757E-17	2.321E-01	3.44E+02	8.53E-14	3.30E+02	0.094
		127	6.287E+00	6.900E-02	2.686E-18	-5.971E-03	0.000E+00	0.000E+00	3.44E+02	0.00E+00	0.00E+00	0.048
8	4	108	-6.287E+00	6.900E-02	-2.686E-18	5.971E-03	0.000E+00	0.000E+00	3.44E+02	0.00E+00	0.00E+00	0.048
			-5.459E+00	-2.619E-18	-1.153E-17	-1.108E-02	-1.807E-17	2.321E-01	-2.98E+02	-1.99E-14	3.30E+02	0.087
		127	-5.459E+00	6.900E-02	-1.153E-17	-1.108E-02	0.000E+00	0.000E+00	-2.98E+02	0.00E+00	0.00E+00	0.041
9	1	108	8.369E+00	6.900E-02	8.707E-18	-4.326E-03	0.000E+00	0.000E+00	-4.57E+02	0.00E+00	0.00E+00	0.064
			8.890E+00	-6.060E-18	7.522E-18	1.046E-02	5.857E-17	2.321E-01	4.86E+02	6.44E-14	3.30E+02	0.113
		129	8.890E+00	6.900E-02	7.522E-18	1.046E-02	0.000E+00	0.000E+00	4.86E+02	0.00E+00	0.00E+00	0.067
9	2	108	-8.890E+00	6.900E-02	-7.522E-18	-1.046E-02	0.000E+00	0.000E+00	4.86E+02	0.00E+00	0.00E+00	0.067
			-8.369E+00	-1.936E-17	-8.707E-18	4.326E-03	-5.060E-17	2.321E-01	-4.57E+02	-5.57E-14	3.30E+02	0.109
		129	-8.369E+00	6.900E-02	-8.707E-18	4.326E-03	0.000E+00	0.000E+00	-4.57E+02	0.00E+00	0.00E+00	0.064
9	3	108	9.280E+00	6.900E-02	1.030E-17	-8.052E-04	0.000E+00	0.000E+00	-5.07E+02	0.00E+00	0.00E+00	0.070
			9.801E+00	-4.662E-18	9.113E-18	1.398E-02	6.928E-17	2.321E-01	5.36E+02	7.62E-14	3.30E+02	0.120
		129	9.801E+00	6.900E-02	9.113E-18	1.398E-02	0.000E+00	0.000E+00	5.36E+02	0.00E+00	0.00E+00	0.074
9	4	108	-9.801E+00	6.900E-02	-9.113E-18	-1.398E-02	0.000E+00	0.000E+00	5.36E+02	0.00E+00	0.00E+00	0.074
			-9.280E+00	-2.076E-17	-1.030E-17	8.052E-04	-6.130E-17	2.321E-01	-5.07E+02	-6.74E-14	3.30E+02	0.116
		129	-9.280E+00	6.900E-02	-1.030E-17	8.052E-04	0.000E+00	0.000E+00	-5.07E+02	0.00E+00	0.00E+00	0.070
10	1	110	8.584E+00	6.900E-02	1.289E-17	2.297E-02	0.000E+00	0.000E+00	-4.69E+02	0.00E+00	0.00E+00	0.065
			8.934E+00	1.914E-17	6.359E-18	-1.048E-02	8.673E-17	2.321E-01	4.88E+02	9.54E-14	3.30E+02	0.114
		129	8.934E+00	6.900E-02	6.359E-18	-1.048E-02	0.000E+00	0.000E+00	4.88E+02	0.00E+00	0.00E+00	0.068
10	2	110	-8.934E+00	6.900E-02	-6.359E-18	1.048E-02	0.000E+00	0.000E+00	4.88E+02	0.00E+00	0.00E+00	0.068
			-8.584E+00	1.593E-17	-1.289E-17	-2.297E-02	-4.277E-17	2.321E-01	-4.69E+02	-4.71E-14	3.30E+02	0.111
		129	-8.584E+00	6.900E-02	-1.289E-17	-2.297E-02	0.000E+00	0.000E+00	-4.69E+02	0.00E+00	0.00E+00	0.065
10	3	110	9.443E+00	6.900E-02	1.413E-17	5.223E-02	0.000E+00	0.000E+00	-5.16E+02	0.00E+00	0.00E+00	0.072
			9.794E+00	2.018E-17	7.596E-18	1.878E-02	9.506E-17	2.321E-01	5.35E+02	1.05E-13	3.30E+02	0.120
		129	9.794E+00	6.900E-02	7.596E-18	1.878E-02	0.000E+00	0.000E+00	5.35E+02	0.00E+00	0.00E+00	0.074
10	4	110	-9.794E+00	6.900E-02	-7.596E-18	-1.878E-02	0.000E+00	0.000E+00	5.35E+02	0.00E+00	0.00E+00	0.074
			-9.443E+00	1.489E-17	-1.413E-17	-5.223E-02	-5.110E-17	2.321E-01	-5.16E+02	-5.62E-14	3.30E+02	0.117
		129	-9.443E+00	6.900E-02	-1.413E-17	-5.223E-02	0.000E+00	0.000E+00	-5.16E+02	0.00E+00	0.00E+00	0.072
11	1	300	1.627E+00	6.900E-02	4.086E-18	2.487E-02	0.000E+00	0.000E+00	-8.89E+01	0.00E+00	0.00E+00	0.012
			1.372E+00	1.893E-17	8.057E-19	-3.755E-03	2.749E-17	2.321E-01	7.50E+01	3.02E-14	3.30E+02	0.056
		321	1.372E+00	6.900E-02	8.057E-19	-3.755E-03	0.000E+00	0.000E+00	7.50E+01	0.00E+00	0.00E+00	0.010
11	2	300	-1.372E+00	6.900E-02	-8.057E-19	3.755E-03	0.000E+00	0.000E+00	7.50E+01	0.00E+00	0.00E+00	0.010
			-1.627E+00	1.574E-17	-4.086E-18	-2.487E-02	-5.419E-18	2.321E-01	-8.89E+01	-5.96E-15	3.30E+02	0.058
		321	-1.627E+00	6.900E-02	-4.086E-18	-2.487E-02	0.000E+00	0.000E+00	-8.89E+01	0.00E+00	0.00E+00	0.012
11	3	300	1.776E+01	6.900E-02	1.803E-17	4.837E-02	0.000E+00	0.000E+00	-9.70E+02	0.00E+00	0.00E+00	0.135
			1.750E+01	1.983E-17	1.475E-17	1.974E-02	1.213E-16	2.321E-01	9.57E+02	1.33E-13	3.30E+02	0.179
		321	1.750E+01	6.900E-02	1.475E-17	1.974E-02	0.000E+00	0.000E+00	9.57E+02	0.00E+00	0.00E+00	0.133
11	4	300	-1.750E+01	6.900E-02	-1.475E-17	-1.974E-02	0.000E+00	0.000E+00	9.57E+02	0.00E+00	0.00E+00	0.133
			-1.776E+01	1.485E-17	-1.803E-17	-4.837E-02	-9.921E-17	2.321E-01	-9.70E+02	-1.09E-13	3.30E+02	0.181
		321	-1.776E+01	6.900E-02	-1.803E-17	-4.837E-02	0.000E+00	0.000E+00	-9.70E+02	0.00E+00	0.00E+00	0.135

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12	1	302	1.921E+00	6.900E-02	1.262E-18	2.262E-03	0.000E+00	0.000E+00	-1.05E+02	0.00E+00	0.00E+00	0.015
			1.348E+00	-6.291E-18	3.201E-18	3.180E-03	8.487E-18	2.321E-01	7.36E+01	9.34E-15	3.30E+02	0.056
		321	1.348E+00	6.900E-02	3.201E-18	3.180E-03	0.000E+00	0.000E+00	7.36E+01	0.00E+00	0.00E+00	0.010
12	2	302	-1.348E+00	6.900E-02	-3.201E-18	-3.180E-03	0.000E+00	0.000E+00	7.36E+01	0.00E+00	0.00E+00	0.010
			-1.921E+00	-1.952E-17	-1.262E-18	-2.262E-03	-2.153E-17	2.321E-01	-1.05E+02	-2.37E-14	3.30E+02	0.060
		321	-1.921E+00	6.900E-02	-1.262E-18	-2.262E-03	0.000E+00	0.000E+00	-1.05E+02	0.00E+00	0.00E+00	0.015
12	3	302	1.745E+01	6.900E-02	1.430E-17	2.300E-03	0.000E+00	0.000E+00	-9.54E+02	0.00E+00	0.00E+00	0.132
			1.688E+01	-4.976E-18	1.624E-17	3.218E-03	9.622E-17	2.321E-01	9.22E+02	1.06E-13	3.30E+02	0.174
		321	1.688E+01	6.900E-02	1.624E-17	3.218E-03	0.000E+00	0.000E+00	9.22E+02	0.00E+00	0.00E+00	0.128
12	4	302	-1.688E+01	6.900E-02	-1.624E-17	-3.218E-03	0.000E+00	0.000E+00	9.22E+02	0.00E+00	0.00E+00	0.128
			-1.745E+01	-2.084E-17	-1.430E-17	-2.300E-03	-1.093E-16	2.321E-01	-9.54E+02	-1.20E-13	3.30E+02	0.178
		321	-1.745E+01	6.900E-02	-1.430E-17	-2.300E-03	0.000E+00	0.000E+00	-9.54E+02	0.00E+00	0.00E+00	0.132
13	1	302	1.965E+00	6.900E-02	5.583E-18	3.206E-03	0.000E+00	0.000E+00	-1.07E+02	0.00E+00	0.00E+00	0.015
			1.141E+00	1.751E-17	-1.634E-18	1.501E-03	3.756E-17	2.321E-01	6.23E+01	4.13E-14	3.30E+02	0.054
		323	1.141E+00	6.900E-02	-1.634E-18	1.501E-03	0.000E+00	0.000E+00	6.23E+01	0.00E+00	0.00E+00	0.009
13	2	302	-1.141E+00	6.900E-02	1.634E-18	-1.501E-03	0.000E+00	0.000E+00	6.23E+01	0.00E+00	0.00E+00	0.009
			-1.965E+00	1.021E-18	-5.583E-18	-3.206E-03	1.099E-17	2.321E-01	-1.07E+02	1.21E-14	3.30E+02	0.061
		323	-1.965E+00	6.900E-02	-5.583E-18	-3.206E-03	0.000E+00	0.000E+00	-1.07E+02	0.00E+00	0.00E+00	0.015
13	3	302	1.049E+01	6.900E-02	1.444E-17	4.140E-03	0.000E+00	0.000E+00	-5.73E+02	0.00E+00	0.00E+00	0.080
			9.667E+00	2.125E-17	7.221E-18	2.434E-03	9.712E-17	2.321E-01	5.28E+02	1.07E-13	3.30E+02	0.119
		323	9.667E+00	6.900E-02	7.221E-18	2.434E-03	0.000E+00	0.000E+00	5.28E+02	0.00E+00	0.00E+00	0.073
13	4	302	-9.667E+00	6.900E-02	-7.221E-18	-2.434E-03	0.000E+00	0.000E+00	5.28E+02	0.00E+00	0.00E+00	0.073
			-1.049E+01	-2.721E-18	-1.444E-17	-4.140E-03	-4.857E-17	2.321E-01	-5.73E+02	-5.34E-14	3.30E+02	0.125
		323	-1.049E+01	6.900E-02	-1.444E-17	-4.140E-03	0.000E+00	0.000E+00	-5.73E+02	0.00E+00	0.00E+00	0.080
14	1	304	2.087E+00	6.900E-02	-1.496E-18	2.923E-03	0.000E+00	0.000E+00	-1.14E+02	0.00E+00	0.00E+00	0.016
			1.073E+00	2.235E-18	4.322E-18	-1.770E-03	-1.006E-17	2.321E-01	5.86E+01	-1.11E-14	3.30E+02	0.054
		323	1.073E+00	6.900E-02	4.322E-18	-1.770E-03	0.000E+00	0.000E+00	5.86E+01	0.00E+00	0.00E+00	0.008
14	2	304	-1.073E+00	6.900E-02	-4.322E-18	1.770E-03	0.000E+00	0.000E+00	5.86E+01	0.00E+00	0.00E+00	0.008
			-2.087E+00	-2.108E-17	1.496E-18	-2.923E-03	-2.907E-17	2.321E-01	-1.14E+02	-3.20E-14	3.30E+02	0.062
		323	-2.087E+00	6.900E-02	1.496E-18	-2.923E-03	0.000E+00	0.000E+00	-1.14E+02	0.00E+00	0.00E+00	0.016
14	3	304	9.778E+00	6.900E-02	5.132E-18	2.698E-03	0.000E+00	0.000E+00	-5.34E+02	0.00E+00	0.00E+00	0.074
			8.764E+00	5.955E-18	1.095E-17	-1.996E-03	3.452E-17	2.321E-01	4.79E+02	3.80E-14	3.30E+02	0.112
		323	8.764E+00	6.900E-02	1.095E-17	-1.996E-03	0.000E+00	0.000E+00	4.79E+02	0.00E+00	0.00E+00	0.067
14	4	304	-8.764E+00	6.900E-02	-1.095E-17	1.996E-03	0.000E+00	0.000E+00	4.79E+02	0.00E+00	0.00E+00	0.067
			-9.778E+00	-2.480E-17	-5.132E-18	-2.698E-03	-7.366E-17	2.321E-01	-5.34E+02	-8.10E-14	3.30E+02	0.120
		323	-9.778E+00	6.900E-02	-5.132E-18	-2.698E-03	0.000E+00	0.000E+00	-5.34E+02	0.00E+00	0.00E+00	0.074
15	1	304	1.873E+00	6.900E-02	4.955E-18	-7.284E-04	0.000E+00	0.000E+00	-1.02E+02	0.00E+00	0.00E+00	0.014
			7.683E-01	1.129E-17	-2.862E-18	3.125E-03	3.333E-17	2.321E-01	4.20E+01	3.67E-14	3.30E+02	0.052
		325	7.683E-01	6.900E-02	-2.862E-18	3.125E-03	0.000E+00	0.000E+00	4.20E+01	0.00E+00	0.00E+00	0.006
15	2	304	-7.683E-01	6.900E-02	2.862E-18	-3.125E-03	0.000E+00	0.000E+00	4.20E+01	0.00E+00	0.00E+00	0.006
			-1.873E+00	-1.329E-17	-4.955E-18	7.284E-04	1.925E-17	2.321E-01	-1.02E+02	2.12E-14	3.30E+02	0.060
		325	-1.873E+00	6.900E-02	-4.955E-18	7.284E-04	0.000E+00	0.000E+00	-1.02E+02	0.00E+00	0.00E+00	0.014
15	3	304	1.071E+00	6.900E-02	5.610E-18	-1.409E-04	0.000E+00	0.000E+00	-5.85E+01	0.00E+00	0.00E+00	0.008

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			-3.423E-02	1.593E-17	-2.207E-18	3.713E-03	3.774E-17	2.321E-01	-1.87E+00	4.15E-14	3.30E+02	0.046
		325	-3.423E-02	6.900E-02	-2.207E-18	3.713E-03	0.000E+00	0.000E+00	-1.87E+00	0.00E+00	0.00E+00	0.000
15	4	304	3.423E-02	6.900E-02	2.207E-18	-3.713E-03	0.000E+00	0.000E+00	-1.87E+00	0.00E+00	0.00E+00	0.000
			-1.071E+00	-1.793E-17	-5.610E-18	1.409E-04	1.485E-17	2.321E-01	-5.85E+01	1.63E-14	3.30E+02	0.054
		325	-1.071E+00	6.900E-02	-5.610E-18	1.409E-04	0.000E+00	0.000E+00	-5.85E+01	0.00E+00	0.00E+00	0.008
16	1	306	1.892E+00	6.900E-02	-2.580E-18	3.145E-03	0.000E+00	0.000E+00	-1.03E+02	0.00E+00	0.00E+00	0.014
			7.868E-01	1.128E-17	5.237E-18	-7.086E-04	-1.735E-17	2.321E-01	4.30E+01	-1.91E-14	3.30E+02	0.052
		325	7.868E-01	6.900E-02	5.237E-18	-7.086E-04	0.000E+00	0.000E+00	4.30E+01	0.00E+00	0.00E+00	0.006
16	2	306	-7.868E-01	6.900E-02	-5.237E-18	7.086E-04	0.000E+00	0.000E+00	4.30E+01	0.00E+00	0.00E+00	0.006
			-1.892E+00	-1.329E-17	2.580E-18	-3.145E-03	-3.523E-17	2.321E-01	-1.03E+02	-3.88E-14	3.30E+02	0.060
		325	-1.892E+00	6.900E-02	2.580E-18	-3.145E-03	0.000E+00	0.000E+00	-1.03E+02	0.00E+00	0.00E+00	0.014
16	3	306	1.050E+00	6.900E-02	-2.183E-18	3.708E-03	0.000E+00	0.000E+00	-5.74E+01	0.00E+00	0.00E+00	0.008
			-5.494E-02	1.598E-17	5.633E-18	-1.457E-04	-1.469E-17	2.321E-01	-3.00E+00	-1.62E-14	3.30E+02	0.046
		325	-5.494E-02	6.900E-02	5.633E-18	-1.457E-04	0.000E+00	0.000E+00	-3.00E+00	0.00E+00	0.00E+00	0.000
16	4	306	5.494E-02	6.900E-02	-5.633E-18	1.457E-04	0.000E+00	0.000E+00	-3.00E+00	0.00E+00	0.00E+00	0.000
			-1.050E+00	-1.798E-17	2.183E-18	-3.708E-03	-3.790E-17	2.321E-01	-5.74E+01	-4.17E-14	3.30E+02	0.054
		325	-1.050E+00	6.900E-02	2.183E-18	-3.708E-03	0.000E+00	0.000E+00	-5.74E+01	0.00E+00	0.00E+00	0.008
17	1	306	1.887E+00	6.900E-02	4.272E-18	-1.734E-03	0.000E+00	0.000E+00	-1.03E+02	0.00E+00	0.00E+00	0.014
			8.724E-01	2.233E-18	-1.546E-18	2.959E-03	2.874E-17	2.321E-01	4.77E+01	3.16E-14	3.30E+02	0.052
		327	8.724E-01	6.900E-02	-1.546E-18	2.959E-03	0.000E+00	0.000E+00	4.77E+01	0.00E+00	0.00E+00	0.007
17	2	306	-8.724E-01	6.900E-02	1.546E-18	-2.959E-03	0.000E+00	0.000E+00	4.77E+01	0.00E+00	0.00E+00	0.007
			-1.887E+00	-2.108E-17	-4.272E-18	1.734E-03	1.040E-17	2.321E-01	-1.03E+02	1.14E-14	3.30E+02	0.060
		327	-1.887E+00	6.900E-02	-4.272E-18	1.734E-03	0.000E+00	0.000E+00	-1.03E+02	0.00E+00	0.00E+00	0.014
17	3	306	9.754E+00	6.900E-02	1.099E-17	-2.002E-03	0.000E+00	0.000E+00	-5.33E+02	0.00E+00	0.00E+00	0.074
			8.740E+00	6.007E-18	5.169E-18	2.691E-03	7.391E-17	2.321E-01	4.78E+02	8.13E-14	3.30E+02	0.112
		327	8.740E+00	6.900E-02	5.169E-18	2.691E-03	0.000E+00	0.000E+00	4.78E+02	0.00E+00	0.00E+00	0.066
17	4	306	-8.740E+00	6.900E-02	-5.169E-18	-2.691E-03	0.000E+00	0.000E+00	4.78E+02	0.00E+00	0.00E+00	0.066
			-9.754E+00	-2.486E-17	-1.099E-17	2.002E-03	-3.477E-17	2.321E-01	-5.33E+02	-3.82E-14	3.30E+02	0.120
		327	-9.754E+00	6.900E-02	-1.099E-17	2.002E-03	0.000E+00	0.000E+00	-5.33E+02	0.00E+00	0.00E+00	0.074
18	1	308	1.756E+00	6.900E-02	-1.456E-18	1.323E-03	0.000E+00	0.000E+00	-9.60E+01	0.00E+00	0.00E+00	0.013
			9.321E-01	1.761E-17	5.761E-18	3.029E-03	-9.797E-18	2.321E-01	5.09E+01	-1.08E-14	3.30E+02	0.053
		327	9.321E-01	6.900E-02	5.761E-18	3.029E-03	0.000E+00	0.000E+00	5.09E+01	0.00E+00	0.00E+00	0.007
18	2	308	-9.321E-01	6.900E-02	-5.761E-18	-3.029E-03	0.000E+00	0.000E+00	5.09E+01	0.00E+00	0.00E+00	0.007
			-1.756E+00	9.191E-19	1.456E-18	-1.323E-03	-3.875E-17	2.321E-01	-9.60E+01	-4.26E-14	3.30E+02	0.059
		327	-1.756E+00	6.900E-02	1.456E-18	-1.323E-03	0.000E+00	0.000E+00	-9.60E+01	0.00E+00	0.00E+00	0.013
18	3	308	1.047E+01	6.900E-02	7.252E-18	2.493E-03	0.000E+00	0.000E+00	-5.72E+02	0.00E+00	0.00E+00	0.079
			9.643E+00	2.135E-17	1.447E-17	4.199E-03	4.878E-17	2.321E-01	5.27E+02	5.37E-14	3.30E+02	0.119
		327	9.643E+00	6.900E-02	1.447E-17	4.199E-03	0.000E+00	0.000E+00	5.27E+02	0.00E+00	0.00E+00	0.073
18	4	308	-9.643E+00	6.900E-02	-1.447E-17	-4.199E-03	0.000E+00	0.000E+00	5.27E+02	0.00E+00	0.00E+00	0.073
			-1.047E+01	-2.819E-18	-7.252E-18	-2.493E-03	-9.733E-17	2.321E-01	-5.72E+02	-1.07E-13	3.30E+02	0.125
		327	-1.047E+01	6.900E-02	-7.252E-18	-2.493E-03	0.000E+00	0.000E+00	-5.72E+02	0.00E+00	0.00E+00	0.079
19	1	308	1.654E+00	6.900E-02	3.372E-18	2.641E-03	0.000E+00	0.000E+00	-9.04E+01	0.00E+00	0.00E+00	0.013
			1.081E+00	-6.237E-18	1.432E-18	1.723E-03	2.268E-17	2.321E-01	5.91E+01	2.49E-14	3.30E+02	0.054

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		329	1.081E+00	6.900E-02	1.432E-18	1.723E-03	0.000E+00	0.000E+00	5.91E+01	0.00E+00	0.00E+00	0.008
19	2	308	-1.081E+00	6.900E-02	-1.432E-18	-1.723E-03	0.000E+00	0.000E+00	5.91E+01	0.00E+00	0.00E+00	0.008
			-1.654E+00	-1.957E-17	-3.372E-18	-2.641E-03	-9.634E-18	2.321E-01	-9.04E+01	-1.06E-14	3.30E+02	0.058
		329	-1.654E+00	6.900E-02	-3.372E-18	-2.641E-03	0.000E+00	0.000E+00	-9.04E+01	0.00E+00	0.00E+00	0.013
19	3	308	1.743E+01	6.900E-02	1.631E-17	3.295E-03	0.000E+00	0.000E+00	-9.52E+02	0.00E+00	0.00E+00	0.132
			1.685E+01	-4.853E-18	1.437E-17	2.378E-03	1.097E-16	2.321E-01	9.21E+02	1.21E-13	3.30E+02	0.174
		329	1.685E+01	6.900E-02	1.437E-17	2.378E-03	0.000E+00	0.000E+00	9.21E+02	0.00E+00	0.00E+00	0.128
19	4	308	-1.685E+01	6.900E-02	-1.437E-17	-2.378E-03	0.000E+00	0.000E+00	9.21E+02	0.00E+00	0.00E+00	0.128
			-1.743E+01	-2.096E-17	-1.631E-17	-3.295E-03	-9.664E-17	2.321E-01	-9.52E+02	-1.06E-13	3.30E+02	0.178
		329	-1.743E+01	6.900E-02	-1.631E-17	-3.295E-03	0.000E+00	0.000E+00	-9.52E+02	0.00E+00	0.00E+00	0.132
20	1	310	1.422E+00	6.900E-02	1.057E-18	-6.861E-03	0.000E+00	0.000E+00	-7.77E+01	0.00E+00	0.00E+00	0.011
			1.167E+00	1.894E-17	4.338E-18	2.177E-02	7.110E-18	2.321E-01	6.38E+01	7.82E-15	3.30E+02	0.055
		329	1.167E+00	6.900E-02	4.338E-18	2.177E-02	0.000E+00	0.000E+00	6.38E+01	0.00E+00	0.00E+00	0.009
20	2	310	-1.167E+00	6.900E-02	-4.338E-18	-2.177E-02	0.000E+00	0.000E+00	6.38E+01	0.00E+00	0.00E+00	0.009
			-1.422E+00	1.574E-17	-1.057E-18	6.861E-03	-2.918E-17	2.321E-01	-7.77E+01	-3.21E-14	3.30E+02	0.057
		329	-1.422E+00	6.900E-02	-1.057E-18	6.861E-03	0.000E+00	0.000E+00	-7.77E+01	0.00E+00	0.00E+00	0.011
20	3	310	1.773E+01	6.900E-02	1.481E-17	1.944E-02	0.000E+00	0.000E+00	-9.69E+02	0.00E+00	0.00E+00	0.135
			1.747E+01	1.983E-17	1.809E-17	4.807E-02	9.959E-17	2.321E-01	9.55E+02	1.10E-13	3.30E+02	0.178
		329	1.747E+01	6.900E-02	1.809E-17	4.807E-02	0.000E+00	0.000E+00	9.55E+02	0.00E+00	0.00E+00	0.133
20	4	310	-1.747E+01	6.900E-02	-1.809E-17	-4.807E-02	0.000E+00	0.000E+00	9.55E+02	0.00E+00	0.00E+00	0.133
			-1.773E+01	1.485E-17	-1.481E-17	-1.944E-02	-1.217E-16	2.321E-01	-9.69E+02	-1.34E-13	3.30E+02	0.180
		329	-1.773E+01	6.900E-02	-1.481E-17	-1.944E-02	0.000E+00	0.000E+00	-9.69E+02	0.00E+00	0.00E+00	0.135
21	1	100	-4.103E-01	5.108E+00	7.449E-01	1.001E-02	1.087E+00	8.105E+00	1.01E+01	4.42E+02	1.01E+03	0.203
			2.451E+00	-2.802E+00	8.406E-01	3.223E-02	-4.114E-02	1.172E+00	6.01E+01	-1.67E+01	1.46E+02	0.031
		400	2.451E+00	-1.696E+00	8.406E-01	3.223E-02	8.187E-01	3.702E+00	6.01E+01	3.33E+02	4.63E+02	0.119
21	2	100	-2.451E+00	3.907E+00	-8.406E-01	-3.223E-02	-6.664E-01	2.602E+00	6.01E+01	-2.71E+02	3.25E+02	0.091
			4.103E-01	-4.003E+00	-7.449E-01	-1.001E-02	-2.717E-01	-2.980E+00	1.01E+01	-1.10E+02	-3.73E+02	0.068
		400	4.103E-01	-2.897E+00	-7.449E-01	-1.001E-02	-1.024E+00	9.009E-01	1.01E+01	-4.16E+02	1.13E+02	0.075
21	3	100	6.237E+00	9.276E+00	1.768E-01	1.678E-02	5.649E-01	2.692E+01	-1.53E+02	2.29E+02	3.36E+03	0.520
			9.098E+00	1.367E+00	2.725E-01	3.900E-02	-2.699E-02	1.530E+01	2.23E+02	-1.10E+01	1.91E+03	0.298
		400	9.098E+00	2.472E+00	2.725E-01	3.900E-02	8.570E-02	1.314E+01	2.23E+02	3.48E+01	1.64E+03	0.264
21	4	100	-9.098E+00	-2.611E-01	-2.725E-01	-3.900E-02	-1.445E-01	-1.621E+01	2.23E+02	-5.87E+01	-2.03E+03	0.321
			-6.237E+00	-8.171E+00	-1.768E-01	-1.678E-02	-2.858E-01	-1.711E+01	-1.53E+02	-1.16E+02	-2.14E+03	0.334
		400	-6.237E+00	-7.065E+00	-1.768E-01	-1.678E-02	-2.910E-01	-8.536E+00	-1.53E+02	-1.18E+02	-1.07E+03	0.186
22	1	102	2.354E+00	5.092E+00	1.082E+00	8.756E-03	1.882E+00	2.019E+00	-5.77E+01	7.65E+02	2.52E+02	0.149
			1.901E+00	-3.091E+00	1.116E+00	2.669E-02	3.685E-01	3.088E+00	4.66E+01	1.50E+02	3.86E+02	0.081
		402	1.901E+00	-1.985E+00	1.116E+00	2.669E-02	6.342E-01	6.950E+00	4.66E+01	2.58E+02	8.69E+02	0.163
22	2	102	-1.901E+00	4.196E+00	-1.116E+00	-2.669E-02	-1.582E+00	1.980E+00	4.66E+01	-6.43E+02	2.48E+02	0.130
			-2.354E+00	-3.986E+00	-1.082E+00	-8.756E-03	-6.315E-01	2.118E+00	-5.77E+01	-2.57E+02	2.65E+02	0.080
		402	-2.354E+00	-2.881E+00	-1.082E+00	-8.756E-03	-8.596E-01	4.974E+00	-5.77E+01	-3.49E+02	6.22E+02	0.143
22	3	102	1.988E+00	4.795E+00	2.413E-01	1.384E-02	6.270E-01	2.027E+00	-4.87E+01	2.55E+02	2.53E+02	0.077
			1.535E+00	-3.387E+00	2.747E-01	3.178E-02	6.495E-02	2.771E+00	3.76E+01	2.64E+01	3.46E+02	0.057
		402	1.535E+00	-2.282E+00	2.747E-01	3.178E-02	2.290E-02	6.299E+00	3.76E+01	9.30E+00	7.87E+02	0.116

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22	4	102	-1.535E+00	4.493E+00	-2.747E-01	-3.178E-02	-3.265E-01	1.972E+00	3.76E+01	-1.33E+02	2.47E+02	0.058
			-1.988E+00	-3.690E+00	-2.413E-01	-1.384E-02	-3.279E-01	2.435E+00	-4.87E+01	-1.33E+02	3.04E+02	0.068
		402	-1.988E+00	-2.584E+00	-2.413E-01	-1.384E-02	-2.483E-01	5.625E+00	-4.87E+01	-1.01E+02	7.03E+02	0.118
23	1	104	2.850E+00	5.237E+00	9.963E-01	3.856E-03	1.648E+00	2.013E+00	-6.98E+01	6.69E+02	2.52E+02	0.138
			2.162E+00	-2.944E+00	1.008E+00	1.062E-02	4.254E-01	3.258E+00	5.30E+01	1.73E+02	4.07E+02	0.088
		404	2.162E+00	-1.838E+00	1.008E+00	1.062E-02	6.226E-01	7.284E+00	5.30E+01	2.53E+02	9.10E+02	0.169
23	2	104	-2.162E+00	4.049E+00	-1.008E+00	-1.062E-02	-1.544E+00	1.966E+00	5.30E+01	-6.27E+02	2.46E+02	0.129
			-2.850E+00	-4.131E+00	-9.963E-01	-3.856E-03	-5.157E-01	1.966E+00	-6.98E+01	-2.09E+02	2.46E+02	0.073
		404	-2.850E+00	-3.026E+00	-9.963E-01	-3.856E-03	-7.000E-01	4.656E+00	-6.98E+01	-2.84E+02	5.82E+02	0.130
23	3	104	2.873E+00	4.884E+00	2.229E-01	5.529E-03	4.403E-01	2.024E+00	-7.04E+01	1.79E+02	2.53E+02	0.070
			2.186E+00	-3.296E+00	2.343E-01	1.229E-02	8.874E-02	2.879E+00	5.36E+01	3.60E+01	3.60E+02	0.062
		404	2.186E+00	-2.191E+00	2.343E-01	1.229E-02	9.173E-02	6.507E+00	5.36E+01	3.73E+01	8.13E+02	0.126
23	4	104	-2.186E+00	4.402E+00	-2.343E-01	-1.229E-02	-3.372E-01	1.955E+00	5.36E+01	-1.37E+02	2.44E+02	0.060
			-2.873E+00	-3.778E+00	-2.229E-01	-5.529E-03	-1.790E-01	2.345E+00	-7.04E+01	-7.27E+01	2.93E+02	0.061
		404	-2.873E+00	-2.673E+00	-2.229E-01	-5.529E-03	-1.691E-01	5.433E+00	-7.04E+01	-6.87E+01	6.79E+02	0.114
24	1	106	2.555E+00	5.168E+00	9.657E-01	1.102E-02	1.502E+00	2.011E+00	-6.26E+01	6.10E+02	2.51E+02	0.128
			1.867E+00	-3.012E+00	9.543E-01	4.256E-03	5.213E-01	3.184E+00	4.58E+01	2.12E+02	3.98E+02	0.091
		406	1.867E+00	-1.906E+00	9.543E-01	4.256E-03	6.495E-01	7.133E+00	4.58E+01	2.64E+02	8.92E+02	0.167
24	2	106	-1.867E+00	4.117E+00	-9.543E-01	-4.256E-03	-1.605E+00	1.968E+00	4.58E+01	-6.52E+02	2.46E+02	0.131
			-2.555E+00	-4.063E+00	-9.657E-01	-1.102E-02	-4.311E-01	2.041E+00	-6.26E+01	-1.75E+02	2.55E+02	0.068
		406	-2.555E+00	-2.958E+00	-9.657E-01	-1.102E-02	-5.721E-01	4.807E+00	-6.26E+01	-2.32E+02	6.01E+02	0.124
24	3	106	2.901E+00	4.883E+00	2.080E-01	1.196E-02	2.508E-01	2.024E+00	-7.11E+01	1.02E+02	2.53E+02	0.059
			2.214E+00	-3.297E+00	1.966E-01	5.195E-03	1.258E-01	2.878E+00	5.43E+01	5.11E+01	3.60E+02	0.065
		406	2.214E+00	-2.192E+00	1.966E-01	5.195E-03	1.974E-01	6.505E+00	5.43E+01	8.02E+01	8.13E+02	0.132
24	4	106	-2.214E+00	4.403E+00	-1.966E-01	-5.195E-03	-3.539E-01	1.955E+00	5.43E+01	-1.44E+02	2.44E+02	0.061
			-2.901E+00	-3.778E+00	-2.080E-01	-1.196E-02	-3.555E-02	2.346E+00	-7.11E+01	-1.44E+01	2.93E+02	0.053
		406	-2.901E+00	-2.672E+00	-2.080E-01	-1.196E-02	-1.201E-01	5.435E+00	-7.11E+01	-4.88E+01	6.79E+02	0.111
25	1	108	1.840E+00	5.014E+00	9.638E-01	2.664E-02	1.400E+00	2.017E+00	-4.51E+01	5.69E+02	2.52E+02	0.120
			1.387E+00	-3.169E+00	9.304E-01	8.703E-03	6.222E-01	3.003E+00	3.40E+01	2.53E+02	3.75E+02	0.092
		408	1.387E+00	-2.063E+00	9.304E-01	8.703E-03	7.033E-01	6.778E+00	3.40E+01	2.86E+02	8.47E+02	0.162
25	2	108	-1.387E+00	4.274E+00	-9.304E-01	-8.703E-03	-1.701E+00	1.982E+00	3.40E+01	-6.91E+02	2.48E+02	0.135
			-1.840E+00	-3.908E+00	-9.638E-01	-2.664E-02	-3.592E-01	2.203E+00	-4.51E+01	-1.46E+02	2.75E+02	0.065
		408	-1.840E+00	-2.803E+00	-9.638E-01	-2.664E-02	-4.780E-01	5.146E+00	-4.51E+01	-1.94E+02	6.43E+02	0.123
25	3	108	2.057E+00	4.797E+00	2.052E-01	3.175E-02	1.180E-01	2.027E+00	-5.04E+01	4.79E+01	2.53E+02	0.049
			1.603E+00	-3.386E+00	1.718E-01	1.381E-02	2.315E-01	2.772E+00	3.93E+01	9.40E+01	3.47E+02	0.067
		408	1.603E+00	-2.280E+00	1.718E-01	1.381E-02	3.075E-01	6.302E+00	3.93E+01	1.25E+02	7.88E+02	0.132
25	4	108	-1.603E+00	4.491E+00	-1.718E-01	-1.381E-02	-4.185E-01	1.972E+00	3.93E+01	-1.70E+02	2.47E+02	0.063
			-2.057E+00	-3.691E+00	-2.052E-01	-3.175E-02	3.145E-02	2.434E+00	-5.04E+01	1.28E+01	3.04E+02	0.051
		408	-2.057E+00	-2.586E+00	-2.052E-01	-3.175E-02	-8.217E-02	5.622E+00	-5.04E+01	-3.34E+01	7.03E+02	0.109
26	1	110	-5.828E-01	5.024E+00	8.634E-01	3.360E-02	7.583E-01	7.714E+00	1.43E+01	3.08E+02	9.64E+02	0.179
			2.278E+00	-2.885E+00	7.677E-01	1.138E-02	2.677E-01	8.756E-01	5.58E+01	1.09E+02	1.09E+02	0.038
		410	2.278E+00	-1.780E+00	7.677E-01	1.138E-02	9.803E-01	3.500E+00	5.58E+01	3.98E+02	4.37E+02	0.124

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26	2	110	-2.278E+00	3.991E+00	-7.677E-01	-1.138E-02	-1.179E+00	2.992E+00	5.58E+01	-4.79E+02	3.74E+02	0.126
			5.828E-01	-3.919E+00	-8.634E-01	-3.360E-02	4.516E-02	-2.684E+00	1.43E+01	1.83E+01	-3.35E+02	0.051
		410	5.828E-01	-2.813E+00	-8.634E-01	-3.360E-02	-7.751E-01	1.103E+00	1.43E+01	-3.15E+02	1.38E+02	0.065
26	3	110	6.238E+00	9.271E+00	2.375E-01	3.970E-02	4.192E-02	2.689E+01	-1.53E+02	1.70E+01	3.36E+03	0.491
			9.099E+00	1.361E+00	1.419E-01	1.748E-02	2.954E-01	1.528E+01	2.23E+02	1.20E+02	1.91E+03	0.313
		410	9.099E+00	2.466E+00	1.419E-01	1.748E-02	3.599E-01	1.313E+01	2.23E+02	1.46E+02	1.64E+03	0.279
26	4	110	-9.099E+00	-2.554E-01	-1.419E-01	-1.748E-02	-4.623E-01	-1.619E+01	2.23E+02	-1.88E+02	-2.02E+03	0.338
			-6.238E+00	-8.165E+00	-2.375E-01	-3.970E-02	1.740E-02	-1.709E+01	-1.53E+02	7.07E+00	-2.14E+03	0.319
		410	-6.238E+00	-7.060E+00	-2.375E-01	-3.970E-02	-1.547E-01	-8.524E+00	-1.53E+02	-6.28E+01	-1.07E+03	0.178
210	1	400	-4.109E-01	2.915E+00	2.658E-01	1.001E-02	1.024E+00	-9.009E-01	1.01E+01	4.16E+02	-1.13E+02	0.075
			2.450E+00	-5.728E-01	3.615E-01	3.223E-02	1.221E+00	4.968E+00	6.00E+01	4.96E+02	6.21E+02	0.163
		500	2.450E+00	5.326E-01	3.615E-01	3.223E-02	1.625E+00	4.993E+00	6.00E+01	6.60E+02	6.24E+02	0.187
210	2	400	-2.450E+00	1.678E+00	-3.615E-01	-3.223E-02	-8.187E-01	-3.702E+00	6.00E+01	-3.33E+02	-4.63E+02	0.119
			4.109E-01	-1.810E+00	-2.658E-01	-1.001E-02	-1.318E+00	3.558E+00	1.01E+01	-5.36E+02	4.45E+02	0.138
		500	4.109E-01	-7.041E-01	-2.658E-01	-1.001E-02	-1.615E+00	4.970E+00	1.01E+01	-6.56E+02	6.21E+02	0.179
210	3	400	6.237E+00	7.089E+00	4.026E-02	1.678E-02	2.910E-01	8.536E+00	-1.53E+02	1.18E+02	1.07E+03	0.186
			9.097E+00	3.602E+00	1.359E-01	3.900E-02	2.242E-01	9.708E+00	2.23E+02	9.11E+01	1.21E+03	0.212
		500	9.097E+00	4.707E+00	1.359E-01	3.900E-02	3.700E-01	5.036E+00	2.23E+02	1.50E+02	6.30E+02	0.139
210	4	400	-9.097E+00	-2.496E+00	-1.359E-01	-3.900E-02	-8.570E-02	-1.314E+01	2.23E+02	-3.48E+01	-1.64E+03	0.264
			-6.237E+00	-5.984E+00	-4.026E-02	-1.678E-02	-3.219E-01	-1.182E+00	-1.53E+02	-1.31E+02	-1.48E+02	0.060
		500	-6.237E+00	-4.879E+00	-4.026E-02	-1.678E-02	-3.601E-01	4.927E+00	-1.53E+02	-1.46E+02	6.16E+02	0.127
220	1	402	1.902E+00	2.564E+00	5.705E-01	8.756E-03	8.596E-01	-4.974E+00	-4.66E+01	3.49E+02	-6.22E+02	0.141
			1.449E+00	-1.196E+00	6.039E-01	2.669E-02	1.308E+00	9.197E+00	3.55E+01	5.31E+02	1.15E+03	0.238
		502	1.449E+00	-9.101E-02	6.039E-01	2.669E-02	1.985E+00	1.020E+01	3.55E+01	8.06E+02	1.28E+03	0.294
220	2	402	-1.449E+00	2.302E+00	-6.039E-01	-2.669E-02	-6.342E-01	-6.950E+00	3.55E+01	-2.58E+02	-8.69E+02	0.161
			-1.902E+00	-1.459E+00	-5.705E-01	-8.756E-03	-1.495E+00	6.958E+00	-4.66E+01	-6.08E+02	8.70E+02	0.212
		502	-1.902E+00	-3.534E-01	-5.705E-01	-8.756E-03	-2.135E+00	7.696E+00	-4.66E+01	-8.67E+02	9.62E+02	0.261
220	3	402	1.635E+00	2.506E+00	1.095E-01	1.384E-02	2.483E-01	-5.625E+00	-4.01E+01	1.01E+02	-7.03E+02	0.117
			1.182E+00	-1.255E+00	1.429E-01	3.178E-02	1.707E-01	8.441E+00	2.90E+01	6.94E+01	1.06E+03	0.160
		502	1.182E+00	-1.493E-01	1.429E-01	3.178E-02	3.274E-01	9.354E+00	2.90E+01	1.33E+02	1.17E+03	0.185
220	4	402	-1.182E+00	2.360E+00	-1.429E-01	-3.178E-02	-2.290E-02	-6.299E+00	2.90E+01	-9.30E+00	-7.87E+02	0.115
			-1.635E+00	-1.401E+00	-1.095E-01	-1.384E-02	-3.585E-01	7.714E+00	-4.01E+01	-1.46E+02	9.64E+02	0.160
		502	-1.635E+00	-2.951E-01	-1.095E-01	-1.384E-02	-4.776E-01	8.544E+00	-4.01E+01	-1.94E+02	1.07E+03	0.181
230	1	404	2.263E+00	2.586E+00	5.167E-01	3.856E-03	7.000E-01	-4.656E+00	-5.55E+01	2.84E+02	-5.82E+02	0.128
			1.575E+00	-1.173E+00	5.281E-01	1.062E-02	1.212E+00	9.551E+00	3.86E+01	4.92E+02	1.19E+03	0.240
		504	1.575E+00	-6.721E-02	5.281E-01	1.062E-02	1.804E+00	1.058E+01	3.86E+01	7.33E+02	1.32E+03	0.291
230	2	404	-1.575E+00	2.278E+00	-5.281E-01	-1.062E-02	-6.226E-01	-7.284E+00	3.86E+01	-2.53E+02	-9.10E+02	0.167
			-2.263E+00	-1.480E+00	-5.167E-01	-3.856E-03	-1.276E+00	6.617E+00	-5.55E+01	-5.19E+02	8.27E+02	0.195
		504	-2.263E+00	-3.749E-01	-5.167E-01	-3.856E-03	-1.856E+00	7.331E+00	-5.55E+01	-7.54E+02	9.16E+02	0.240
230	3	404	2.351E+00	2.548E+00	1.057E-01	5.529E-03	1.691E-01	-5.433E+00	-5.76E+01	6.87E+01	-6.79E+02	0.112
			1.663E+00	-1.211E+00	1.171E-01	1.229E-02	2.210E-01	8.661E+00	4.08E+01	8.98E+01	1.08E+03	0.168
		504	1.663E+00	-1.052E-01	1.171E-01	1.229E-02	3.519E-01	9.597E+00	4.08E+01	1.43E+02	1.20E+03	0.192
230	4	404	-1.663E+00	2.316E+00	-1.171E-01	-1.229E-02	-9.173E-02	-6.507E+00	4.08E+01	-3.73E+01	-8.13E+02	0.124

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			-2.351E+00	-1.442E+00	-1.057E-01	-5.529E-03	-2.854E-01	7.507E+00	-5.76E+01	-1.16E+02	9.38E+02	0.154
		504	-2.351E+00	-3.369E-01	-1.057E-01	-5.529E-03	-4.034E-01	8.312E+00	-5.76E+01	-1.64E+02	1.04E+03	0.175
240	1	406	2.030E+00	2.586E+00	5.056E-01	1.102E-02	5.721E-01	-4.807E+00	-4.98E+01	2.32E+02	-6.01E+02	0.123
			1.343E+00	-1.173E+00	4.941E-01	4.256E-03	1.202E+00	9.393E+00	3.29E+01	4.88E+02	1.17E+03	0.235
		506	1.343E+00	-6.735E-02	4.941E-01	4.256E-03	1.756E+00	1.042E+01	3.29E+01	7.13E+02	1.30E+03	0.284
240	2	406	-1.343E+00	2.278E+00	-4.941E-01	-4.256E-03	-6.495E-01	-7.133E+00	3.29E+01	-2.64E+02	-8.92E+02	0.165
			-2.030E+00	-1.480E+00	-5.056E-01	-1.102E-02	-1.137E+00	6.775E+00	-4.98E+01	-4.62E+02	8.47E+02	0.189
		506	-2.030E+00	-3.747E-01	-5.056E-01	-1.102E-02	-1.704E+00	7.493E+00	-4.98E+01	-6.92E+02	9.37E+02	0.233
240	3	406	2.373E+00	2.546E+00	1.088E-01	1.196E-02	1.201E-01	-5.435E+00	-5.82E+01	4.88E+01	-6.79E+02	0.109
			1.686E+00	-1.212E+00	9.729E-02	5.195E-03	3.041E-01	8.661E+00	4.13E+01	1.24E+02	1.08E+03	0.173
		506	1.686E+00	-1.067E-01	9.729E-02	5.195E-03	4.124E-01	9.597E+00	4.13E+01	1.68E+02	1.20E+03	0.196
240	4	406	-1.686E+00	2.318E+00	-9.729E-02	-5.195E-03	-1.974E-01	-6.505E+00	4.13E+01	-8.02E+01	-8.13E+02	0.130
			-2.373E+00	-1.441E+00	-1.088E-01	-1.196E-02	-2.396E-01	7.507E+00	-5.82E+01	-9.73E+01	9.38E+02	0.152
		506	-2.373E+00	-3.353E-01	-1.088E-01	-1.196E-02	-3.608E-01	8.312E+00	-5.82E+01	-1.47E+02	1.04E+03	0.173
250	1	408	1.449E+00	2.560E+00	5.320E-01	2.664E-02	4.780E-01	-5.146E+00	-3.55E+01	1.94E+02	-6.43E+02	0.121
			9.955E-01	-1.201E+00	4.986E-01	8.703E-03	1.261E+00	9.016E+00	2.44E+01	5.12E+02	1.13E+03	0.231
		508	9.955E-01	-9.555E-02	4.986E-01	8.703E-03	1.820E+00	1.002E+01	2.44E+01	7.40E+02	1.25E+03	0.280
250	2	408	-9.955E-01	2.306E+00	-4.986E-01	-8.703E-03	-7.033E-01	-6.778E+00	2.44E+01	-2.86E+02	-8.47E+02	0.161
			-1.449E+00	-1.454E+00	-5.320E-01	-2.664E-02	-1.073E+00	7.138E+00	-3.55E+01	-4.36E+02	8.92E+02	0.189
		508	-1.449E+00	-3.488E-01	-5.320E-01	-2.664E-02	-1.670E+00	7.882E+00	-3.55E+01	-6.78E+02	9.85E+02	0.236
250	3	408	1.685E+00	2.505E+00	1.208E-01	3.175E-02	8.217E-02	-5.622E+00	-4.13E+01	3.34E+01	-7.03E+02	0.108
			1.232E+00	-1.256E+00	8.741E-02	1.381E-02	3.958E-01	8.451E+00	3.02E+01	1.61E+02	1.06E+03	0.173
		508	1.232E+00	-1.501E-01	8.741E-02	1.381E-02	4.896E-01	9.370E+00	3.02E+01	1.99E+02	1.17E+03	0.194
250	4	408	-1.232E+00	2.361E+00	-8.741E-02	-1.381E-02	-3.075E-01	-6.302E+00	3.02E+01	-1.25E+02	-7.88E+02	0.131
			-1.685E+00	-1.400E+00	-1.208E-01	-3.175E-02	-2.080E-01	7.704E+00	-4.13E+01	-8.45E+01	9.63E+02	0.151
		508	-1.685E+00	-2.943E-01	-1.208E-01	-3.175E-02	-3.393E-01	8.529E+00	-4.13E+01	-1.38E+02	1.07E+03	0.173
260	1	410	-5.832E-01	2.826E+00	4.060E-01	3.360E-02	7.751E-01	-1.103E+00	1.43E+01	3.15E+02	-1.38E+02	0.065
			2.278E+00	-6.616E-01	3.103E-01	1.138E-02	1.326E+00	4.866E+00	5.58E+01	5.39E+02	6.08E+02	0.167
		510	2.278E+00	4.439E-01	3.103E-01	1.138E-02	1.673E+00	4.995E+00	5.58E+01	6.80E+02	6.24E+02	0.189
260	2	410	-2.278E+00	1.767E+00	-3.103E-01	-1.138E-02	-9.803E-01	-3.500E+00	5.58E+01	-3.98E+02	-4.37E+02	0.124
			5.832E-01	-1.721E+00	-4.060E-01	-3.360E-02	-1.228E+00	3.660E+00	1.43E+01	-4.99E+02	4.58E+02	0.135
		510	5.832E-01	-6.154E-01	-4.060E-01	-3.360E-02	-1.683E+00	4.968E+00	1.43E+01	-6.84E+02	6.21E+02	0.183
260	3	410	6.237E+00	7.084E+00	1.333E-01	3.970E-02	1.547E-01	8.524E+00	-1.53E+02	6.28E+01	1.07E+03	0.178
			9.098E+00	3.596E+00	3.772E-02	1.748E-02	3.831E-01	9.702E+00	2.23E+02	1.56E+02	1.21E+03	0.221
		510	9.098E+00	4.702E+00	3.772E-02	1.748E-02	4.143E-01	5.037E+00	2.23E+02	1.68E+02	6.30E+02	0.142
260	4	410	-9.098E+00	-2.491E+00	-3.772E-02	-1.748E-02	-3.599E-01	-1.313E+01	2.23E+02	-1.46E+02	-1.64E+03	0.279
			-6.237E+00	-5.979E+00	-1.333E-01	-3.970E-02	-2.854E-01	-1.176E+00	-1.53E+02	-1.16E+02	-1.47E+02	0.058
		510	-6.237E+00	-4.873E+00	-1.333E-01	-3.970E-02	-4.242E-01	4.926E+00	-1.53E+02	-1.72E+02	6.16E+02	0.131
211	1	500	-4.121E-01	7.046E-01	2.730E-01	1.001E-02	1.615E+00	-4.970E+00	1.01E+01	6.56E+02	-6.21E+02	0.179
			2.449E+00	1.639E+00	3.687E-01	3.223E-02	1.322E+00	5.143E+00	6.00E+01	5.37E+02	6.43E+02	0.172
		600	2.449E+00	2.744E+00	3.687E-01	3.223E-02	1.022E+00	4.070E+00	6.00E+01	4.15E+02	5.09E+02	0.137
211	2	500	-2.449E+00	-5.331E-01	-3.687E-01	-3.223E-02	-1.625E+00	-4.993E+00	6.00E+01	-6.60E+02	-6.24E+02	0.187
			4.121E-01	4.009E-01	-2.730E-01	-1.001E-02	-1.204E+00	3.769E+00	1.01E+01	-4.89E+02	4.71E+02	0.135

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		600	4.121E-01	1.506E+00	-2.730E-01	-1.001E-02	-7.968E-01	1.304E+00	1.01E+01	-3.24E+02	1.63E+02	0.069
211	3	500	6.235E+00	4.879E+00	1.300E-02	1.678E-02	3.601E-01	-4.927E+00	-1.53E+02	1.46E+02	-6.16E+02	0.127
			9.096E+00	5.813E+00	1.086E-01	3.900E-02	3.658E-01	9.796E+00	2.23E+02	1.49E+02	1.22E+03	0.222
		600	9.096E+00	6.919E+00	1.086E-01	3.900E-02	3.669E-01	1.342E+01	2.23E+02	1.49E+02	1.68E+03	0.285
211	4	500	-9.096E+00	-4.708E+00	-1.086E-01	-3.900E-02	-3.700E-01	-5.036E+00	2.23E+02	-1.50E+02	-6.30E+02	0.139
			-6.235E+00	-3.774E+00	-1.300E-02	-1.678E-02	-2.483E-01	-8.835E-01	-1.53E+02	-1.01E+02	-1.10E+02	0.051
		600	-6.235E+00	-2.668E+00	-1.300E-02	-1.678E-02	-1.418E-01	-8.045E+00	-1.53E+02	-5.76E+01	-1.01E+03	0.169
221	1	502	1.466E+00	4.001E-01	1.332E-01	8.756E-03	2.135E+00	-7.696E+00	-3.59E+01	8.67E+02	-9.62E+02	0.259
			1.013E+00	1.061E+00	1.666E-01	2.669E-02	1.836E+00	9.639E+00	2.48E+01	7.46E+02	1.20E+03	0.274
		602	1.013E+00	2.167E+00	1.666E-01	2.669E-02	1.688E+00	7.835E+00	2.48E+01	6.86E+02	9.79E+02	0.235
221	2	502	-1.013E+00	4.432E-02	-1.666E-01	-2.669E-02	-1.985E+00	-1.020E+01	2.48E+01	-8.06E+02	-1.28E+03	0.293
			-1.466E+00	7.054E-01	-1.332E-01	-8.756E-03	-1.949E+00	7.516E+00	-3.59E+01	-7.92E+02	9.40E+02	0.245
		602	-1.466E+00	1.811E+00	-1.332E-01	-8.756E-03	-1.763E+00	6.089E+00	-3.59E+01	-7.16E+02	7.61E+02	0.210
221	3	502	1.297E+00	2.985E-01	1.248E-02	1.384E-02	4.776E-01	-8.544E+00	-3.18E+01	1.94E+02	-1.07E+03	0.180
			8.438E-01	9.596E-01	4.587E-02	3.178E-02	3.152E-01	8.932E+00	2.07E+01	1.28E+02	1.12E+03	0.176
		602	8.438E-01	2.065E+00	4.587E-02	3.178E-02	3.033E-01	7.281E+00	2.07E+01	1.23E+02	9.10E+02	0.146
221	4	502	-8.438E-01	1.459E-01	-4.587E-02	-3.178E-02	-3.274E-01	-9.354E+00	2.07E+01	-1.33E+02	-1.17E+03	0.184
			-1.297E+00	8.069E-01	-1.248E-02	-1.384E-02	-4.278E-01	8.223E+00	-3.18E+01	-1.74E+02	1.03E+03	0.171
		602	-1.297E+00	1.912E+00	-1.248E-02	-1.384E-02	-3.784E-01	6.643E+00	-3.18E+01	-1.54E+02	8.30E+02	0.141
231	1	504	1.684E+00	4.615E-01	1.303E-01	3.856E-03	1.856E+00	-7.331E+00	-4.13E+01	7.54E+02	-9.16E+02	0.238
			9.961E-01	1.125E+00	1.417E-01	1.062E-02	1.659E+00	9.944E+00	2.44E+01	6.74E+02	1.24E+03	0.270
		604	9.961E-01	2.230E+00	1.417E-01	1.062E-02	1.515E+00	8.072E+00	2.44E+01	6.15E+02	1.01E+03	0.229
231	2	504	-9.961E-01	-1.947E-02	-1.417E-01	-1.062E-02	-1.804E+00	-1.058E+01	2.44E+01	-7.33E+02	-1.32E+03	0.289
			-1.684E+00	6.439E-01	-1.303E-01	-3.856E-03	-1.698E+00	7.218E+00	-4.13E+01	-6.90E+02	9.02E+02	0.227
		604	-1.684E+00	1.749E+00	-1.303E-01	-3.856E-03	-1.540E+00	5.857E+00	-4.13E+01	-6.26E+02	7.32E+02	0.194
231	3	504	1.844E+00	3.429E-01	2.118E-02	5.529E-03	4.034E-01	-8.312E+00	-4.52E+01	1.64E+02	-1.04E+03	0.173
			1.156E+00	1.006E+00	3.265E-02	1.229E-02	3.287E-01	9.144E+00	2.83E+01	1.34E+02	1.14E+03	0.181
		604	1.156E+00	2.112E+00	3.265E-02	1.229E-02	3.057E-01	7.472E+00	2.83E+01	1.24E+02	9.34E+02	0.151
231	4	504	-1.156E+00	9.920E-02	-3.265E-02	-1.229E-02	-3.519E-01	-9.597E+00	2.83E+01	-1.43E+02	-1.20E+03	0.190
			-1.844E+00	7.626E-01	-2.118E-02	-5.529E-03	-3.674E-01	8.019E+00	-4.52E+01	-1.49E+02	1.00E+03	0.166
		604	-1.844E+00	1.868E+00	-2.118E-02	-5.529E-03	-3.315E-01	6.457E+00	-4.52E+01	-1.35E+02	8.07E+02	0.137
241	1	506	1.511E+00	4.341E-01	1.349E-01	1.102E-02	1.704E+00	-7.493E+00	-3.70E+01	6.92E+02	-9.37E+02	0.231
			8.231E-01	1.097E+00	1.234E-01	4.256E-03	1.606E+00	9.817E+00	2.02E+01	6.52E+02	1.23E+03	0.264
		606	8.231E-01	2.203E+00	1.234E-01	4.256E-03	1.456E+00	7.982E+00	2.02E+01	5.92E+02	9.98E+02	0.224
241	2	506	-8.231E-01	7.960E-03	-1.234E-01	-4.256E-03	-1.756E+00	-1.042E+01	2.02E+01	-7.13E+02	-1.30E+03	0.283
			-1.511E+00	6.714E-01	-1.349E-01	-1.102E-02	-1.567E+00	7.345E+00	-3.70E+01	-6.37E+02	9.18E+02	0.221
		606	-1.511E+00	1.777E+00	-1.349E-01	-1.102E-02	-1.430E+00	5.947E+00	-3.70E+01	-5.81E+02	7.43E+02	0.189
241	3	506	1.861E+00	3.416E-01	3.318E-02	1.196E-02	3.608E-01	-8.312E+00	-4.56E+01	1.47E+02	-1.04E+03	0.171
			1.174E+00	1.005E+00	2.172E-02	5.195E-03	3.764E-01	9.143E+00	2.88E+01	1.53E+02	1.14E+03	0.184
		606	1.174E+00	2.110E+00	2.172E-02	5.195E-03	3.406E-01	7.470E+00	2.88E+01	1.38E+02	9.34E+02	0.153
241	4	506	-1.174E+00	1.005E-01	-2.172E-02	-5.195E-03	-4.124E-01	-9.597E+00	2.88E+01	-1.68E+02	-1.20E+03	0.194
			-1.861E+00	7.639E-01	-3.318E-02	-1.196E-02	-3.377E-01	8.019E+00	-4.56E+01	-1.37E+02	1.00E+03	0.165
		606	-1.861E+00	1.869E+00	-3.318E-02	-1.196E-02	-3.148E-01	6.459E+00	-4.56E+01	-1.28E+02	8.07E+02	0.136

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251	1	508	1.063E+00	3.739E-01	1.425E-01	2.664E-02	1.670E+00	-7.882E+00	-2.61E+01	6.78E+02	-9.85E+02	0.235
			6.101E-01	1.035E+00	1.092E-01	8.703E-03	1.662E+00	9.485E+00	1.50E+01	6.75E+02	1.19E+03	0.261
		608	6.101E-01	2.140E+00	1.092E-01	8.703E-03	1.504E+00	7.715E+00	1.50E+01	6.11E+02	9.64E+02	0.221
251	2	508	-6.101E-01	7.049E-02	-1.092E-01	-8.703E-03	-1.820E+00	-1.002E+01	1.50E+01	-7.40E+02	-1.25E+03	0.279
			-1.063E+00	7.316E-01	-1.425E-01	-2.664E-02	-1.550E+00	7.670E+00	-2.61E+01	-6.29E+02	9.59E+02	0.224
		608	-1.063E+00	1.837E+00	-1.425E-01	-2.664E-02	-1.429E+00	6.209E+00	-2.61E+01	-5.81E+02	7.76E+02	0.192
251	3	508	1.328E+00	2.960E-01	4.569E-02	3.175E-02	3.393E-01	-8.529E+00	-3.25E+01	1.38E+02	-1.07E+03	0.172
			8.748E-01	9.571E-01	1.230E-02	1.381E-02	4.408E-01	8.946E+00	2.14E+01	1.79E+02	1.12E+03	0.183
		608	8.748E-01	2.063E+00	1.230E-02	1.381E-02	3.926E-01	7.291E+00	2.14E+01	1.59E+02	9.11E+02	0.152
251	4	508	-8.748E-01	1.484E-01	-1.230E-02	-1.381E-02	-4.896E-01	-9.370E+00	2.14E+01	-1.99E+02	-1.17E+03	0.193
			-1.328E+00	8.095E-01	-4.569E-02	-3.175E-02	-3.282E-01	8.209E+00	-3.25E+01	-1.33E+02	1.03E+03	0.166
		608	-1.328E+00	1.915E+00	-4.569E-02	-3.175E-02	-3.174E-01	6.633E+00	-3.25E+01	-1.29E+02	8.29E+02	0.138
261	1	510	-5.841E-01	6.157E-01	3.909E-01	3.360E-02	1.683E+00	-4.968E+00	1.43E+01	6.84E+02	-6.21E+02	0.183
			2.277E+00	1.550E+00	2.952E-01	1.138E-02	1.239E+00	5.045E+00	5.58E+01	5.03E+02	6.31E+02	0.165
		610	2.277E+00	2.655E+00	2.952E-01	1.138E-02	8.090E-01	3.873E+00	5.58E+01	3.29E+02	4.84E+02	0.121
261	2	510	-2.277E+00	-4.443E-01	-2.952E-01	-1.138E-02	-1.673E+00	-4.995E+00	5.58E+01	-6.80E+02	-6.24E+02	0.189
			5.841E-01	4.897E-01	-3.909E-01	-3.360E-02	-1.356E+00	3.867E+00	1.43E+01	-5.51E+02	4.83E+02	0.146
		610	5.841E-01	1.595E+00	-3.909E-01	-3.360E-02	-1.034E+00	1.502E+00	1.43E+01	-4.20E+02	1.88E+02	0.086
261	3	510	6.236E+00	4.874E+00	1.429E-01	3.970E-02	4.242E-01	-4.926E+00	-1.53E+02	1.72E+02	-6.16E+02	0.131
			9.097E+00	5.808E+00	4.731E-02	1.748E-02	2.593E-01	9.789E+00	2.23E+02	1.05E+02	1.22E+03	0.216
		610	9.097E+00	6.913E+00	4.731E-02	1.748E-02	1.099E-01	1.341E+01	2.23E+02	4.46E+01	1.68E+03	0.270
261	4	510	-9.097E+00	-4.702E+00	-4.731E-02	-1.748E-02	-4.143E-01	-5.037E+00	2.23E+02	-1.68E+02	-6.30E+02	0.142
			-6.236E+00	-3.768E+00	-1.429E-01	-3.970E-02	-3.768E-01	-8.772E-01	-1.53E+02	-1.53E+02	-1.10E+02	0.058
		610	-6.236E+00	-2.663E+00	-1.429E-01	-3.970E-02	-3.350E-01	-8.033E+00	-1.53E+02	-1.36E+02	-1.00E+03	0.180
212	1	600	-4.139E-01	-1.524E+00	7.716E-01	1.001E-02	7.968E-01	-1.304E+00	1.01E+01	3.24E+02	-1.63E+02	0.069
			2.447E+00	3.832E+00	8.673E-01	3.223E-02	2.758E-01	1.735E+00	6.00E+01	1.12E+02	2.17E+02	0.054
		120	2.447E+00	4.938E+00	8.673E-01	3.223E-02	1.167E+00	-1.845E+00	6.00E+01	4.74E+02	-2.31E+02	0.106
212	2	600	-2.447E+00	-2.727E+00	-8.673E-01	-3.223E-02	-1.022E+00	-4.070E+00	6.00E+01	-4.15E+02	-5.09E+02	0.137
			4.139E-01	2.629E+00	-7.716E-01	-1.001E-02	5.690E-02	-2.385E+00	1.01E+01	2.31E+01	-2.98E+02	0.046
		120	4.139E-01	3.734E+00	-7.716E-01	-1.001E-02	-7.269E-01	-7.319E+00	1.01E+01	-2.95E+02	-9.15E+02	0.169
212	3	600	6.233E+00	2.645E+00	1.112E-01	1.678E-02	1.418E-01	8.045E+00	-1.53E+02	5.76E+01	1.01E+03	0.169
			9.094E+00	8.001E+00	2.068E-01	3.900E-02	2.907E-01	1.577E+01	2.23E+02	1.18E+02	1.97E+03	0.321
		120	9.094E+00	9.106E+00	2.068E-01	3.900E-02	3.940E-01	1.688E+01	2.23E+02	1.60E+02	2.11E+03	0.346
212	4	600	-9.094E+00	-6.895E+00	-2.068E-01	-3.900E-02	-3.669E-01	-1.342E+01	2.23E+02	-1.49E+02	-1.68E+03	0.285
			-6.233E+00	-1.539E+00	-1.112E-01	-1.678E-02	4.199E-02	-1.642E+01	-1.53E+02	1.71E+01	-2.05E+03	0.309
		120	-6.233E+00	-4.339E-01	-1.112E-01	-1.678E-02	4.623E-02	-2.605E+01	-1.53E+02	1.88E+01	-3.26E+03	0.476
222	1	602	1.075E+00	-1.601E+00	7.502E-01	8.756E-03	1.763E+00	-6.089E+00	-2.63E+01	7.16E+02	-7.61E+02	0.209
			6.216E-01	3.482E+00	7.836E-01	2.669E-02	8.440E-01	4.539E+00	1.52E+01	3.43E+02	5.67E+02	0.129
		122	6.216E-01	4.587E+00	7.836E-01	2.669E-02	0.000E+00	0.000E+00	1.52E+01	0.00E+00	0.00E+00	0.002
222	2	602	-6.216E-01	-2.377E+00	-7.836E-01	-2.669E-02	-1.688E+00	-7.835E+00	1.52E+01	-6.86E+02	-9.79E+02	0.233
			-1.075E+00	2.706E+00	-7.502E-01	-8.756E-03	-8.816E-01	3.666E+00	-2.63E+01	-3.58E+02	4.58E+02	0.117
		122	-1.075E+00	3.812E+00	-7.502E-01	-8.756E-03	0.000E+00	0.000E+00	-2.63E+01	0.00E+00	0.00E+00	0.004

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222	3	602	9.965E-01	-1.847E+00	1.348E-01	1.384E-02	3.784E-01	-6.643E+00	-2.44E+01	1.54E+02	-8.30E+02	0.140
			5.432E-01	3.236E+00	1.682E-01	3.178E-02	1.517E-01	4.262E+00	1.33E+01	6.16E+01	5.33E+02	0.084
		122	5.432E-01	4.342E+00	1.682E-01	3.178E-02	0.000E+00	0.000E+00	1.33E+01	0.00E+00	0.00E+00	0.002
222	4	602	-5.432E-01	-2.131E+00	-1.682E-01	-3.178E-02	-3.033E-01	-7.281E+00	1.33E+01	-1.23E+02	-9.10E+02	0.145
			-9.965E-01	2.952E+00	-1.348E-01	-1.384E-02	-1.892E-01	3.943E+00	-2.44E+01	-7.69E+01	4.93E+02	0.083
		122	-9.965E-01	4.058E+00	-1.348E-01	-1.384E-02	0.000E+00	0.000E+00	-2.44E+01	0.00E+00	0.00E+00	0.003
232	1	604	1.133E+00	-1.498E+00	6.732E-01	3.856E-03	1.540E+00	-5.857E+00	-2.78E+01	6.26E+02	-7.32E+02	0.192
			4.452E-01	3.587E+00	6.847E-01	1.062E-02	7.574E-01	4.658E+00	1.09E+01	3.08E+02	5.82E+02	0.125
		124	4.452E-01	4.693E+00	6.847E-01	1.062E-02	0.000E+00	0.000E+00	1.09E+01	0.00E+00	0.00E+00	0.002
232	2	604	-4.452E-01	-2.482E+00	-6.847E-01	-1.062E-02	-1.515E+00	-8.072E+00	1.09E+01	-6.15E+02	-1.01E+03	0.227
			-1.133E+00	2.603E+00	-6.732E-01	-3.856E-03	-7.702E-01	3.551E+00	-2.78E+01	-3.13E+02	4.44E+02	0.109
		124	-1.133E+00	3.709E+00	-6.732E-01	-3.856E-03	0.000E+00	0.000E+00	-2.78E+01	0.00E+00	0.00E+00	0.004
232	3	604	1.378E+00	-1.764E+00	1.359E-01	5.529E-03	3.315E-01	-6.457E+00	-3.38E+01	1.35E+02	-8.07E+02	0.135
			6.903E-01	3.321E+00	1.473E-01	1.229E-02	1.528E-01	4.358E+00	1.69E+01	6.21E+01	5.45E+02	0.087
		124	6.903E-01	4.426E+00	1.473E-01	1.229E-02	0.000E+00	0.000E+00	1.69E+01	0.00E+00	0.00E+00	0.002
232	4	604	-6.903E-01	-2.215E+00	-1.473E-01	-1.229E-02	-3.057E-01	-7.472E+00	1.69E+01	-1.24E+02	-9.34E+02	0.149
			-1.378E+00	2.870E+00	-1.359E-01	-5.529E-03	-1.657E-01	3.850E+00	-3.38E+01	-6.73E+01	4.81E+02	0.081
		124	-1.378E+00	3.975E+00	-1.359E-01	-5.529E-03	0.000E+00	0.000E+00	-3.38E+01	0.00E+00	0.00E+00	0.005
242	1	606	1.010E+00	-1.538E+00	6.472E-01	1.102E-02	1.430E+00	-5.947E+00	-2.48E+01	5.81E+02	-7.43E+02	0.187
			3.229E-01	3.548E+00	6.357E-01	4.256E-03	7.281E-01	4.613E+00	7.91E+00	2.96E+02	5.77E+02	0.122
		126	3.229E-01	4.653E+00	6.357E-01	4.256E-03	0.000E+00	0.000E+00	7.91E+00	0.00E+00	0.00E+00	0.001
242	2	606	-3.229E-01	-2.442E+00	-6.357E-01	-4.256E-03	-1.456E+00	-7.982E+00	7.91E+00	-5.92E+02	-9.98E+02	0.222
			-1.010E+00	2.643E+00	-6.472E-01	-1.102E-02	-7.152E-01	3.595E+00	-2.48E+01	-2.91E+02	4.49E+02	0.106
		126	-1.010E+00	3.749E+00	-6.472E-01	-1.102E-02	0.000E+00	0.000E+00	-2.48E+01	0.00E+00	0.00E+00	0.003
242	3	606	1.389E+00	-1.765E+00	1.514E-01	1.196E-02	3.148E-01	-6.459E+00	-3.41E+01	1.28E+02	-8.07E+02	0.135
			7.019E-01	3.320E+00	1.399E-01	5.195E-03	1.703E-01	4.357E+00	1.72E+01	6.92E+01	5.45E+02	0.088
		126	7.019E-01	4.425E+00	1.399E-01	5.195E-03	0.000E+00	0.000E+00	1.72E+01	0.00E+00	0.00E+00	0.002
242	4	606	-7.019E-01	-2.215E+00	-1.399E-01	-5.195E-03	-3.406E-01	-7.470E+00	1.72E+01	-1.38E+02	-9.34E+02	0.151
			-1.389E+00	2.871E+00	-1.514E-01	-1.196E-02	-1.574E-01	3.851E+00	-3.41E+01	-6.39E+01	4.81E+02	0.080
		126	-1.389E+00	3.976E+00	-1.514E-01	-1.196E-02	0.000E+00	0.000E+00	-3.41E+01	0.00E+00	0.00E+00	0.005
252	1	608	7.046E-01	-1.654E+00	6.687E-01	2.664E-02	1.429E+00	-6.209E+00	-1.73E+01	5.81E+02	-7.76E+02	0.191
			2.514E-01	3.429E+00	6.353E-01	8.703E-03	7.522E-01	4.479E+00	6.16E+00	3.06E+02	5.60E+02	0.121
		128	2.514E-01	4.534E+00	6.353E-01	8.703E-03	0.000E+00	0.000E+00	6.16E+00	0.00E+00	0.00E+00	0.001
252	2	608	-2.514E-01	-2.323E+00	-6.353E-01	-8.703E-03	-1.504E+00	-7.715E+00	6.16E+00	-6.11E+02	-9.64E+02	0.220
			-7.046E-01	2.760E+00	-6.687E-01	-2.664E-02	-7.147E-01	3.726E+00	-1.73E+01	-2.90E+02	4.66E+02	0.107
		128	-7.046E-01	3.865E+00	-6.687E-01	-2.664E-02	0.000E+00	0.000E+00	-1.73E+01	0.00E+00	0.00E+00	0.002
252	3	608	1.009E+00	-1.843E+00	1.745E-01	3.175E-02	3.174E-01	-6.633E+00	-2.47E+01	1.29E+02	-8.29E+02	0.137
			5.559E-01	3.240E+00	1.411E-01	1.381E-02	1.963E-01	4.267E+00	1.36E+01	7.97E+01	5.33E+02	0.087
		128	5.559E-01	4.346E+00	1.411E-01	1.381E-02	0.000E+00	0.000E+00	1.36E+01	0.00E+00	0.00E+00	0.002
252	4	608	-5.559E-01	-2.135E+00	-1.411E-01	-1.381E-02	-3.926E-01	-7.291E+00	1.36E+01	-1.59E+02	-9.11E+02	0.151
			-1.009E+00	2.948E+00	-1.745E-01	-3.175E-02	-1.587E-01	3.938E+00	-2.47E+01	-6.45E+01	4.92E+02	0.081
		128	-1.009E+00	4.054E+00	-1.745E-01	-3.175E-02	0.000E+00	0.000E+00	-2.47E+01	0.00E+00	0.00E+00	0.003
262	1	610	-5.855E-01	-1.608E+00	8.867E-01	3.360E-02	1.034E+00	-1.502E+00	1.44E+01	4.20E+02	-1.88E+02	0.086

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			2.275E+00	3.748E+00	7.910E-01	1.138E-02	-5.220E-02	1.442E+00	5.58E+01	-2.12E+01	1.80E+02	0.036
		130	2.275E+00	4.854E+00	7.910E-01	1.138E-02	7.587E-01	-2.232E+00	5.58E+01	3.08E+02	-2.79E+02	0.089
262	2	610	-2.275E+00	-2.643E+00	-7.910E-01	-1.138E-02	-8.090E-01	-3.873E+00	5.58E+01	-3.29E+02	-4.84E+02	0.121
			5.855E-01	2.713E+00	-8.867E-01	-3.360E-02	-2.805E-01	-2.093E+00	1.44E+01	-1.14E+02	-2.62E+02	0.054
		130	5.855E-01	3.819E+00	-8.867E-01	-3.360E-02	-1.199E+00	-6.932E+00	1.44E+01	-4.87E+02	-8.66E+02	0.190
262	3	610	6.233E+00	2.639E+00	2.896E-01	3.970E-02	3.350E-01	8.033E+00	-1.53E+02	1.36E+02	1.00E+03	0.180
			9.094E+00	7.995E+00	1.939E-01	1.748E-02	-4.694E-02	1.575E+01	2.23E+02	-1.91E+01	1.97E+03	0.307
		130	9.094E+00	9.100E+00	1.939E-01	1.748E-02	1.362E-01	1.686E+01	2.23E+02	5.53E+01	2.11E+03	0.331
262	4	610	-9.094E+00	-6.890E+00	-1.939E-01	-1.748E-02	-1.099E-01	-1.341E+01	2.23E+02	-4.46E+01	-1.68E+03	0.270
			-6.233E+00	-1.534E+00	-2.896E-01	-3.970E-02	-2.857E-01	-1.641E+01	-1.53E+02	-1.16E+02	-2.05E+03	0.322
		130	-6.233E+00	-4.283E-01	-2.896E-01	-3.970E-02	-5.764E-01	-2.602E+01	-1.53E+02	-2.34E+02	-3.25E+03	0.506
31	1	300	2.510E+00	4.854E+00	8.626E-01	1.090E-02	8.630E-01	6.783E+00	-6.15E+01	3.51E+02	8.48E+02	0.175
			-5.840E-01	-2.895E+00	8.182E-01	3.246E-02	1.290E-01	9.761E-01	-1.43E+01	5.24E+01	1.22E+02	0.026
		351	-5.840E-01	-1.790E+00	8.182E-01	3.246E-02	9.809E-01	3.612E+00	-1.43E+01	3.99E+02	4.51E+02	0.120
31	2	300	5.840E-01	4.001E+00	-8.182E-01	-3.246E-02	-1.059E+00	2.903E+00	-1.43E+01	-4.30E+02	3.63E+02	0.112
			-2.510E+00	-3.748E+00	-8.626E-01	-1.090E-02	1.682E-02	-1.944E+00	-6.15E+01	6.83E+00	-2.43E+02	0.043
		351	-2.510E+00	-2.643E+00	-8.626E-01	-1.090E-02	-8.852E-01	1.650E+00	-6.15E+01	-3.60E+02	2.06E+02	0.087
31	3	300	6.659E+00	8.910E+00	2.395E-01	1.852E-02	3.165E-01	2.510E+01	-1.63E+02	1.29E+02	3.14E+03	0.476
			3.565E+00	1.161E+00	1.950E-01	4.008E-02	2.968E-01	1.473E+01	8.74E+01	1.21E+02	1.84E+03	0.285
		351	3.565E+00	2.267E+00	1.950E-01	4.008E-02	2.670E-01	1.280E+01	8.74E+01	1.08E+02	1.60E+03	0.249
31	4	300	-3.565E+00	-5.588E-02	-1.950E-01	-4.008E-02	-5.123E-01	-1.541E+01	8.74E+01	-2.08E+02	-1.93E+03	0.309
			-6.659E+00	-7.805E+00	-2.395E-01	-1.852E-02	-1.510E-01	-1.569E+01	-1.63E+02	-6.13E+01	-1.96E+03	0.304
		351	-6.659E+00	-6.699E+00	-2.395E-01	-1.852E-02	-1.713E-01	-7.536E+00	-1.63E+02	-6.96E+01	-9.42E+02	0.163
32	1	302	3.277E-01	4.878E+00	1.260E+00	8.769E-03	0.000E+00	0.000E+00	-8.03E+00	0.00E+00	0.00E+00	0.001
			7.978E-01	-2.860E+00	1.260E+00	2.665E-02	1.418E+00	4.866E+00	1.96E+01	5.76E+02	6.08E+02	0.167
		352	7.978E-01	-1.754E+00	1.260E+00	2.665E-02	2.836E+00	8.489E+00	1.96E+01	1.15E+03	1.06E+03	0.310
32	2	302	-7.978E-01	3.965E+00	-1.260E+00	-2.665E-02	0.000E+00	0.000E+00	1.96E+01	0.00E+00	0.00E+00	0.003
			-3.277E-01	-3.773E+00	-1.260E+00	-8.769E-03	-1.418E+00	3.839E+00	-8.03E+00	-5.76E+02	4.80E+02	0.148
		352	-3.277E-01	-2.667E+00	-1.260E+00	-8.769E-03	-2.836E+00	6.435E+00	-8.03E+00	-1.15E+03	8.04E+02	0.273
32	3	302	3.433E+00	4.574E+00	2.344E-01	1.361E-02	0.000E+00	0.000E+00	-8.41E+01	0.00E+00	0.00E+00	0.012
			3.903E+00	-3.164E+00	2.344E-01	3.149E-02	2.637E-01	4.524E+00	9.57E+01	1.07E+02	5.65E+02	0.107
		352	3.903E+00	-2.059E+00	2.344E-01	3.149E-02	5.275E-01	7.804E+00	9.57E+01	2.14E+02	9.76E+02	0.179
32	4	302	-3.903E+00	4.270E+00	-2.344E-01	-3.149E-02	0.000E+00	0.000E+00	9.57E+01	0.00E+00	0.00E+00	0.013
			-3.433E+00	-3.469E+00	-2.344E-01	-1.361E-02	-2.637E-01	4.182E+00	-8.41E+01	-1.07E+02	5.23E+02	0.099
		352	-3.433E+00	-2.363E+00	-2.344E-01	-1.361E-02	-5.275E-01	7.119E+00	-8.41E+01	-2.14E+02	8.90E+02	0.165
33	1	304	3.879E-01	5.020E+00	1.159E+00	3.844E-03	0.000E+00	0.000E+00	-9.51E+00	0.00E+00	0.00E+00	0.001
			1.099E+00	-2.718E+00	1.159E+00	1.061E-02	1.303E+00	5.026E+00	2.69E+01	5.30E+02	6.28E+02	0.165
		354	1.099E+00	-1.612E+00	1.159E+00	1.061E-02	2.607E+00	8.809E+00	2.69E+01	1.06E+03	1.10E+03	0.304
33	2	304	-1.099E+00	3.823E+00	-1.159E+00	-1.061E-02	0.000E+00	0.000E+00	2.69E+01	0.00E+00	0.00E+00	0.004
			-3.879E-01	-3.915E+00	-1.159E+00	-3.844E-03	-1.303E+00	3.679E+00	-9.51E+00	-5.30E+02	4.60E+02	0.139
		354	-3.879E-01	-2.810E+00	-1.159E+00	-3.844E-03	-2.607E+00	6.115E+00	-9.51E+00	-1.06E+03	7.64E+02	0.255
33	3	304	4.127E+00	4.663E+00	2.216E-01	5.493E-03	0.000E+00	0.000E+00	-1.01E+02	0.00E+00	0.00E+00	0.014
			4.839E+00	-3.075E+00	2.216E-01	1.225E-02	2.493E-01	4.624E+00	1.19E+02	1.01E+02	5.78E+02	0.111

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		354	4.839E+00	-1.970E+00	2.216E-01	1.225E-02	4.986E-01	8.005E+00	1.19E+02	2.03E+02	1.00E+03	0.184
33	4	304	-4.839E+00	4.180E+00	-2.216E-01	-1.225E-02	0.000E+00	0.000E+00	1.19E+02	0.00E+00	0.00E+00	0.016
			-4.127E+00	-3.558E+00	-2.216E-01	-5.493E-03	-2.493E-01	4.081E+00	-1.01E+02	-1.01E+02	5.10E+02	0.099
		354	-4.127E+00	-2.452E+00	-2.216E-01	-5.493E-03	-4.986E-01	6.919E+00	-1.01E+02	-2.03E+02	8.65E+02	0.162
34	1	306	2.169E-01	4.952E+00	1.062E+00	1.099E-02	0.000E+00	0.000E+00	-5.32E+00	0.00E+00	0.00E+00	0.001
			9.281E-01	-2.786E+00	1.062E+00	4.228E-03	1.194E+00	4.950E+00	2.27E+01	4.85E+02	6.19E+02	0.156
		356	9.281E-01	-1.680E+00	1.062E+00	4.228E-03	2.389E+00	8.656E+00	2.27E+01	9.70E+02	1.08E+03	0.288
34	2	306	-9.281E-01	3.891E+00	-1.062E+00	-4.228E-03	0.000E+00	0.000E+00	2.27E+01	0.00E+00	0.00E+00	0.003
			-2.169E-01	-3.847E+00	-1.062E+00	-1.099E-02	-1.194E+00	3.756E+00	-5.32E+00	-4.85E+02	4.69E+02	0.133
		356	-2.169E-01	-2.741E+00	-1.062E+00	-1.099E-02	-2.389E+00	6.268E+00	-5.32E+00	-9.70E+02	7.84E+02	0.244
34	3	306	4.129E+00	4.662E+00	2.113E-01	1.192E-02	0.000E+00	0.000E+00	-1.01E+02	0.00E+00	0.00E+00	0.014
			4.840E+00	-3.076E+00	2.113E-01	5.156E-03	2.377E-01	4.623E+00	1.19E+02	9.66E+01	5.78E+02	0.110
		356	4.840E+00	-1.970E+00	2.113E-01	5.156E-03	4.755E-01	8.003E+00	1.19E+02	1.93E+02	1.00E+03	0.182
34	4	306	-4.840E+00	4.181E+00	-2.113E-01	-5.156E-03	0.000E+00	0.000E+00	1.19E+02	0.00E+00	0.00E+00	0.016
			-4.129E+00	-3.557E+00	-2.113E-01	-1.192E-02	-2.377E-01	4.082E+00	-1.01E+02	-9.66E+01	5.10E+02	0.098
		356	-4.129E+00	-2.452E+00	-2.113E-01	-1.192E-02	-4.755E-01	6.920E+00	-1.01E+02	-1.93E+02	8.65E+02	0.161
35	1	308	2.976E-01	4.802E+00	9.960E-01	2.658E-02	0.000E+00	0.000E+00	-7.29E+00	0.00E+00	0.00E+00	0.001
			7.677E-01	-2.936E+00	9.960E-01	8.702E-03	1.121E+00	4.781E+00	1.88E+01	4.55E+02	5.98E+02	0.149
		358	7.677E-01	-1.830E+00	9.960E-01	8.702E-03	2.241E+00	8.318E+00	1.88E+01	9.10E+02	1.04E+03	0.273
35	2	308	-7.677E-01	4.041E+00	-9.960E-01	-8.702E-03	0.000E+00	0.000E+00	1.88E+01	0.00E+00	0.00E+00	0.003
			-2.976E-01	-3.697E+00	-9.960E-01	-2.658E-02	-1.121E+00	3.925E+00	-7.29E+00	-4.55E+02	4.91E+02	0.132
		358	-2.976E-01	-2.591E+00	-9.960E-01	-2.658E-02	-2.241E+00	6.606E+00	-7.29E+00	-9.10E+02	8.26E+02	0.242
35	3	308	3.440E+00	4.576E+00	2.061E-01	3.145E-02	0.000E+00	0.000E+00	-8.43E+01	0.00E+00	0.00E+00	0.012
			3.910E+00	-3.162E+00	2.061E-01	1.357E-02	2.318E-01	4.526E+00	9.58E+01	9.42E+01	5.66E+02	0.105
		358	3.910E+00	-2.057E+00	2.061E-01	1.357E-02	4.636E-01	7.809E+00	9.58E+01	1.88E+02	9.76E+02	0.175
35	4	308	-3.910E+00	4.268E+00	-2.061E-01	-1.357E-02	0.000E+00	0.000E+00	9.58E+01	0.00E+00	0.00E+00	0.013
			-3.440E+00	-3.471E+00	-2.061E-01	-3.145E-02	-2.318E-01	4.179E+00	-8.43E+01	-9.42E+01	5.22E+02	0.097
		358	-3.440E+00	-2.365E+00	-2.061E-01	-3.145E-02	-4.636E-01	7.115E+00	-8.43E+01	-1.88E+02	8.89E+02	0.161
36	1	310	2.280E+00	4.817E+00	6.892E-01	3.429E-02	9.290E-01	6.615E+00	-5.59E+01	3.77E+02	8.27E+02	0.175
			-8.142E-01	-2.932E+00	7.337E-01	1.273E-02	-2.066E-02	8.497E-01	-2.00E+01	-8.39E+00	1.06E+02	0.019
		360	-8.142E-01	-1.826E+00	7.337E-01	1.273E-02	7.241E-01	3.526E+00	-2.00E+01	2.94E+02	4.41E+02	0.105
36	2	310	8.142E-01	4.037E+00	-7.337E-01	-1.273E-02	-7.331E-01	3.071E+00	-2.00E+01	-2.98E+02	3.84E+02	0.097
			-2.280E+00	-3.712E+00	-6.892E-01	-3.429E-02	-1.251E-01	-1.818E+00	-5.59E+01	-5.08E+01	-2.27E+02	0.046
		360	-2.280E+00	-2.606E+00	-6.892E-01	-3.429E-02	-8.198E-01	1.736E+00	-5.59E+01	-3.33E+02	2.17E+02	0.084
36	3	310	6.647E+00	8.903E+00	1.516E-01	4.080E-02	4.355E-01	2.506E+01	-1.63E+02	1.77E+02	3.13E+03	0.482
			3.553E+00	1.154E+00	1.961E-01	1.924E-02	1.503E-01	1.470E+01	8.71E+01	6.11E+01	1.84E+03	0.276
		360	3.553E+00	2.260E+00	1.961E-01	1.924E-02	2.016E-01	1.278E+01	8.71E+01	8.19E+01	1.60E+03	0.245
36	4	310	-3.553E+00	-4.891E-02	-1.961E-01	-1.924E-02	-2.396E-01	-1.538E+01	8.71E+01	-9.74E+01	-1.92E+03	0.293
			-6.647E+00	-7.798E+00	-1.516E-01	-4.080E-02	-2.961E-01	-1.567E+01	-1.63E+02	-1.20E+02	-1.96E+03	0.311
		360	-6.647E+00	-6.692E+00	-1.516E-01	-4.080E-02	-2.973E-01	-7.520E+00	-1.63E+02	-1.21E+02	-9.40E+02	0.170
310	1	351	2.197E+00	2.653E+00	3.464E-01	1.090E-02	8.852E-01	-1.650E+00	-5.38E+01	3.60E+02	-2.06E+02	0.086
			-8.971E-01	-6.744E-01	3.019E-01	3.246E-02	1.316E+00	4.992E+00	-2.20E+01	5.35E+02	6.24E+02	0.164
		361	-8.971E-01	4.311E-01	3.019E-01	3.246E-02	1.653E+00	5.139E+00	-2.20E+01	6.71E+02	6.42E+02	0.186

310	2	351	8.971E-01	1.780E+00	-3.019E-01	-3.246E-02	-9.809E-01	-3.612E+00	-2.20E+01	-3.99E+02	-4.51E+02	0.121
			-2.197E+00	-1.547E+00	-3.464E-01	-1.090E-02	-1.270E+00	4.013E+00	-5.38E+01	-5.16E+02	5.02E+02	0.149
		361	-2.197E+00	-4.417E-01	-3.464E-01	-1.090E-02	-1.657E+00	5.121E+00	-5.38E+01	-6.73E+02	6.40E+02	0.190
310	3	351	7.180E+00	6.719E+00	1.218E-01	1.852E-02	1.713E-01	7.536E+00	-1.76E+02	6.96E+01	9.42E+02	0.165
			4.086E+00	3.392E+00	7.733E-02	4.008E-02	3.014E-01	9.603E+00	1.00E+02	1.22E+02	1.20E+03	0.198
		361	4.086E+00	4.498E+00	7.733E-02	4.008E-02	3.615E-01	5.166E+00	1.00E+02	1.47E+02	6.46E+02	0.124
310	4	351	-4.086E+00	-2.287E+00	-7.733E-02	-4.008E-02	-2.670E-01	-1.280E+01	1.00E+02	-1.08E+02	-1.60E+03	0.251
			-7.180E+00	-5.614E+00	-1.218E-01	-1.852E-02	-2.557E-01	-5.984E-01	-1.76E+02	-1.04E+02	-7.48E+01	0.049
		361	-7.180E+00	-4.508E+00	-1.218E-01	-1.852E-02	-3.659E-01	5.094E+00	-1.76E+02	-1.49E+02	6.37E+02	0.134
320	1	352	1.369E-01	2.345E+00	4.939E-01	8.769E-03	2.836E+00	-6.435E+00	-3.36E+00	1.15E+03	-8.04E+02	0.272
			6.070E-01	-9.715E-01	4.939E-01	2.665E-02	3.390E+00	1.049E+01	1.49E+01	1.38E+03	1.31E+03	0.375
		362	6.070E-01	1.340E-01	4.939E-01	2.665E-02	3.944E+00	1.125E+01	1.49E+01	1.60E+03	1.41E+03	0.420
320	2	352	-6.070E-01	2.077E+00	-4.939E-01	-2.665E-02	-2.836E+00	-8.489E+00	1.49E+01	-1.15E+03	-1.06E+03	0.309
			-1.369E-01	-1.239E+00	-4.939E-01	-8.769E-03	-3.390E+00	8.166E+00	-3.36E+00	-1.38E+03	1.02E+03	0.334
		362	-1.369E-01	-1.340E-01	-4.939E-01	-8.769E-03	-3.944E+00	8.650E+00	-3.36E+00	-1.60E+03	1.08E+03	0.373
320	3	352	2.573E+00	2.284E+00	9.016E-02	1.361E-02	5.275E-01	-7.119E+00	-6.31E+01	2.14E+02	-8.90E+02	0.162
			3.043E+00	-1.033E+00	9.016E-02	3.149E-02	6.263E-01	9.698E+00	7.46E+01	2.54E+02	1.21E+03	0.214
		362	3.043E+00	7.260E-02	9.016E-02	3.149E-02	7.259E-01	1.036E+01	7.46E+01	2.95E+02	1.30E+03	0.231
320	4	352	-3.043E+00	2.138E+00	-9.016E-02	-3.149E-02	-5.275E-01	-7.804E+00	7.46E+01	-2.14E+02	-9.76E+02	0.176
			-2.573E+00	-1.178E+00	-9.016E-02	-1.361E-02	-6.263E-01	8.956E+00	-6.31E+01	-2.54E+02	1.12E+03	0.200
		362	-2.573E+00	-7.260E-02	-9.016E-02	-1.361E-02	-7.259E-01	9.535E+00	-6.31E+01	-2.95E+02	1.19E+03	0.215
330	1	354	1.389E-01	2.365E+00	4.587E-01	3.844E-03	2.607E+00	-6.115E+00	-3.40E+00	1.06E+03	-7.64E+02	0.254
			8.501E-01	-9.516E-01	4.587E-01	1.061E-02	3.122E+00	1.083E+01	2.08E+01	1.27E+03	1.35E+03	0.367
		364	8.501E-01	1.539E-01	4.587E-01	1.061E-02	3.637E+00	1.161E+01	2.08E+01	1.48E+03	1.45E+03	0.410
330	2	354	-8.501E-01	2.057E+00	-4.587E-01	-1.061E-02	-2.607E+00	-8.809E+00	2.08E+01	-1.06E+03	-1.10E+03	0.303
			-1.389E-01	-1.259E+00	-4.587E-01	-3.844E-03	-3.122E+00	7.827E+00	-3.40E+00	-1.27E+03	9.78E+02	0.312
		364	-1.389E-01	-1.539E-01	-4.587E-01	-3.844E-03	-3.637E+00	8.292E+00	-3.40E+00	-1.48E+03	1.04E+03	0.350
330	3	354	3.073E+00	2.326E+00	8.522E-02	5.493E-03	4.986E-01	-6.919E+00	-7.53E+01	2.03E+02	-8.65E+02	0.159
			3.784E+00	-9.900E-01	8.522E-02	1.225E-02	5.934E-01	9.914E+00	9.28E+01	2.41E+02	1.24E+03	0.218
		364	3.784E+00	1.154E-01	8.522E-02	1.225E-02	6.884E-01	1.060E+01	9.28E+01	2.80E+02	1.33E+03	0.236
330	4	354	-3.784E+00	2.095E+00	-8.522E-02	-1.225E-02	-4.986E-01	-8.005E+00	9.28E+01	-2.03E+02	-1.00E+03	0.180
			-3.073E+00	-1.221E+00	-8.522E-02	-5.493E-03	-5.934E-01	8.741E+00	-7.53E+01	-2.41E+02	1.09E+03	0.196
		364	-3.073E+00	-1.154E-01	-8.522E-02	-5.493E-03	-6.884E-01	9.296E+00	-7.53E+01	-2.80E+02	1.16E+03	0.211
340	1	356	-6.862E-04	2.366E+00	4.249E-01	1.099E-02	2.389E+00	-6.268E+00	1.68E-02	9.70E+02	-7.84E+02	0.244
			7.105E-01	-9.503E-01	4.249E-01	4.228E-03	2.866E+00	1.067E+01	1.74E+01	1.16E+03	1.33E+03	0.349
		366	7.105E-01	1.551E-01	4.249E-01	4.228E-03	3.343E+00	1.144E+01	1.74E+01	1.36E+03	1.43E+03	0.390
340	2	356	-7.105E-01	2.056E+00	-4.249E-01	-4.228E-03	-2.389E+00	-8.656E+00	1.74E+01	-9.70E+02	-1.08E+03	0.287
			6.862E-04	-1.261E+00	-4.249E-01	-1.099E-02	-2.866E+00	7.986E+00	1.68E-02	-1.16E+03	9.98E+02	0.300
		366	6.862E-04	-1.551E-01	-4.249E-01	-1.099E-02	-3.343E+00	8.454E+00	1.68E-02	-1.36E+03	1.06E+03	0.335
340	3	356	3.075E+00	2.324E+00	8.057E-02	1.192E-02	4.755E-01	-6.920E+00	-7.54E+01	1.93E+02	-8.65E+02	0.157
			3.786E+00	-9.920E-01	8.057E-02	5.156E-03	5.655E-01	9.913E+00	9.28E+01	2.30E+02	1.24E+03	0.217
		366	3.786E+00	1.135E-01	8.057E-02	5.156E-03	6.557E-01	1.060E+01	9.28E+01	2.66E+02	1.33E+03	0.234

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340	4	356	-3.786E+00	2.097E+00	-8.057E-02	-5.156E-03	-4.755E-01	-8.003E+00	9.28E+01	-1.93E+02	-1.00E+03	0.179
			-3.075E+00	-1.219E+00	-8.057E-02	-1.192E-02	-5.655E-01	8.742E+00	-7.54E+01	-2.30E+02	1.09E+03	0.194
		366	-3.075E+00	-1.135E-01	-8.057E-02	-1.192E-02	-6.557E-01	9.297E+00	-7.54E+01	-2.66E+02	1.16E+03	0.209
350	1	358	1.186E-01	2.339E+00	3.999E-01	2.658E-02	2.241E+00	-6.606E+00	-2.91E+00	9.10E+02	-8.26E+02	0.242
			5.887E-01	-9.772E-01	3.999E-01	8.702E-03	2.690E+00	1.031E+01	1.44E+01	1.09E+03	1.29E+03	0.333
		368	5.887E-01	1.283E-01	3.999E-01	8.702E-03	3.140E+00	1.106E+01	1.44E+01	1.28E+03	1.38E+03	0.371
350	2	358	-5.887E-01	2.083E+00	-3.999E-01	-8.702E-03	-2.241E+00	-8.318E+00	1.44E+01	-9.10E+02	-1.04E+03	0.273
			-1.186E-01	-1.234E+00	-3.999E-01	-2.658E-02	-2.690E+00	8.345E+00	-2.91E+00	-1.09E+03	1.04E+03	0.297
		368	-1.186E-01	-1.283E-01	-3.999E-01	-2.658E-02	-3.140E+00	8.837E+00	-2.91E+00	-1.28E+03	1.10E+03	0.331
350	3	358	2.579E+00	2.282E+00	7.891E-02	3.145E-02	4.636E-01	-7.115E+00	-6.32E+01	1.88E+02	-8.89E+02	0.158
			3.049E+00	-1.034E+00	7.891E-02	1.357E-02	5.502E-01	9.710E+00	7.47E+01	2.24E+02	1.21E+03	0.210
		368	3.049E+00	7.143E-02	7.891E-02	1.357E-02	6.374E-01	1.038E+01	7.47E+01	2.59E+02	1.30E+03	0.227
350	4	358	-3.049E+00	2.139E+00	-7.891E-02	-1.357E-02	-4.636E-01	-7.809E+00	7.47E+01	-1.88E+02	-9.76E+02	0.172
			-2.579E+00	-1.177E+00	-7.891E-02	-3.145E-02	-5.502E-01	8.945E+00	-6.32E+01	-2.24E+02	1.12E+03	0.195
		368	-2.579E+00	-7.143E-02	-7.891E-02	-3.145E-02	-6.374E-01	9.519E+00	-6.32E+01	-2.59E+02	1.19E+03	0.210
360	1	360	2.071E+00	2.614E+00	2.753E-01	3.429E-02	8.198E-01	-1.736E+00	-5.08E+01	3.33E+02	-2.17E+02	0.083
			-1.023E+00	-7.131E-01	3.198E-01	1.273E-02	1.082E+00	4.950E+00	-2.51E+01	4.40E+02	6.19E+02	0.150
		370	-1.023E+00	3.924E-01	3.198E-01	1.273E-02	1.441E+00	5.139E+00	-2.51E+01	5.85E+02	6.42E+02	0.174
360	2	360	1.023E+00	1.819E+00	-3.198E-01	-1.273E-02	-7.241E-01	-3.526E+00	-2.51E+01	-2.94E+02	-4.41E+02	0.106
			-2.071E+00	-1.508E+00	-2.753E-01	-3.429E-02	-1.128E+00	4.054E+00	-5.08E+01	-4.58E+02	5.07E+02	0.141
		370	-2.071E+00	-4.030E-01	-2.753E-01	-3.429E-02	-1.437E+00	5.122E+00	-5.08E+01	-5.84E+02	6.40E+02	0.177
360	3	360	7.162E+00	6.712E+00	5.424E-02	4.080E-02	2.973E-01	7.520E+00	-1.76E+02	1.21E+02	9.40E+02	0.172
			4.068E+00	3.385E+00	9.872E-02	1.924E-02	2.543E-01	9.595E+00	9.97E+01	1.03E+02	1.20E+03	0.195
		370	4.068E+00	4.491E+00	9.872E-02	1.924E-02	3.280E-01	5.167E+00	9.97E+01	1.33E+02	6.46E+02	0.122
360	4	360	-4.068E+00	-2.280E+00	-9.872E-02	-1.924E-02	-2.016E-01	-1.278E+01	9.97E+01	-8.19E+01	-1.60E+03	0.247
			-7.162E+00	-5.607E+00	-5.424E-02	-4.080E-02	-3.000E-01	-5.905E-01	-1.76E+02	-1.22E+02	-7.38E+01	0.052
		370	-7.162E+00	-4.501E+00	-5.424E-02	-4.080E-02	-3.237E-01	5.094E+00	-1.76E+02	-1.31E+02	6.37E+02	0.131
311	1	361	2.001E+00	4.421E-01	3.431E-01	1.090E-02	1.657E+00	-5.121E+00	-4.90E+01	6.73E+02	-6.40E+02	0.189
			-1.093E+00	1.537E+00	2.986E-01	3.246E-02	1.269E+00	5.007E+00	-2.68E+01	5.16E+02	6.26E+02	0.162
		371	-1.093E+00	2.642E+00	2.986E-01	3.246E-02	8.878E-01	3.639E+00	-2.68E+01	3.61E+02	4.55E+02	0.117
311	2	361	1.093E+00	-4.314E-01	-2.986E-01	-3.246E-02	-1.653E+00	-5.139E+00	-2.68E+01	-6.71E+02	-6.42E+02	0.186
			-2.001E+00	6.634E-01	-3.431E-01	-1.090E-02	-1.324E+00	4.022E+00	-4.90E+01	-5.38E+02	5.03E+02	0.151
		371	-2.001E+00	1.769E+00	-3.431E-01	-1.090E-02	-9.922E-01	1.671E+00	-4.90E+01	-4.03E+02	2.09E+02	0.092
311	3	361	7.716E+00	4.509E+00	1.061E-01	1.852E-02	3.659E-01	-5.094E+00	-1.89E+02	1.49E+02	-6.37E+02	0.135
			4.622E+00	5.603E+00	6.162E-02	4.008E-02	2.790E-01	9.546E+00	1.13E+02	1.13E+02	1.19E+03	0.197
		371	4.622E+00	6.709E+00	6.162E-02	4.008E-02	2.179E-01	1.275E+01	1.13E+02	8.85E+01	1.59E+03	0.249
311	4	361	-4.622E+00	-4.498E+00	-6.162E-02	-4.008E-02	-3.615E-01	-5.166E+00	1.13E+02	-1.47E+02	-6.46E+02	0.126
			-7.716E+00	-3.403E+00	-1.061E-01	-1.852E-02	-3.333E-01	-5.166E-01	-1.89E+02	-1.35E+02	-6.46E+01	0.054
		371	-7.716E+00	-2.298E+00	-1.061E-01	-1.852E-02	-3.224E-01	-7.442E+00	-1.89E+02	-1.31E+02	-9.30E+02	0.174
321	1	362	1.065E-01	1.839E-01	4.974E-01	8.769E-03	3.944E+00	-8.650E+00	-2.61E+00	1.60E+03	-1.08E+03	0.373
			5.765E-01	1.289E+00	4.974E-01	2.665E-02	3.386E+00	1.043E+01	1.41E+01	1.38E+03	1.30E+03	0.374
		372	5.765E-01	2.395E+00	4.974E-01	2.665E-02	2.828E+00	8.366E+00	1.41E+01	1.15E+03	1.05E+03	0.307
321	2	362	-5.765E-01	-1.839E-01	-4.974E-01	-2.665E-02	-3.944E+00	-1.125E+01	1.41E+01	-1.60E+03	-1.41E+03	0.420

			-1.065E-01	9.216E-01	-4.974E-01	-8.769E-03	-3.386E+00	8.228E+00	-2.61E+00	-1.38E+03	1.03E+03	0.334
		372	-1.065E-01	2.027E+00	-4.974E-01	-8.769E-03	-2.828E+00	6.558E+00	-2.61E+00	-1.15E+03	8.20E+02	0.274
321	3	362	1.716E+00	7.669E-02	9.111E-02	1.361E-02	7.259E-01	-9.535E+00	-4.21E+01	2.95E+02	-1.19E+03	0.212
			2.186E+00	1.182E+00	9.111E-02	3.149E-02	6.248E-01	9.690E+00	5.36E+01	2.54E+02	1.21E+03	0.211
		372	2.186E+00	2.288E+00	9.111E-02	3.149E-02	5.243E-01	7.789E+00	5.36E+01	2.13E+02	9.74E+02	0.172
321	4	362	-2.186E+00	-7.669E-02	-9.111E-02	-3.149E-02	-7.259E-01	-1.036E+01	5.36E+01	-2.95E+02	-1.30E+03	0.228
			-1.716E+00	1.029E+00	-9.111E-02	-1.361E-02	-6.248E-01	8.965E+00	-4.21E+01	-2.54E+02	1.12E+03	0.197
		372	-1.716E+00	2.134E+00	-9.111E-02	-1.361E-02	-5.243E-01	7.135E+00	-4.21E+01	-2.13E+02	8.92E+02	0.159
331	1	364	-3.863E-02	2.455E-01	4.577E-01	3.844E-03	3.637E+00	-8.292E+00	9.47E-01	1.48E+03	-1.04E+03	0.349
			6.726E-01	1.351E+00	4.577E-01	1.061E-02	3.123E+00	1.072E+01	1.65E+01	1.27E+03	1.34E+03	0.365
		374	6.726E-01	2.456E+00	4.577E-01	1.061E-02	2.610E+00	8.591E+00	1.65E+01	1.06E+03	1.07E+03	0.299
331	2	364	-6.726E-01	-2.455E-01	-4.577E-01	-1.061E-02	-3.637E+00	-1.161E+01	1.65E+01	-1.48E+03	-1.45E+03	0.409
			3.863E-02	8.600E-01	-4.577E-01	-3.844E-03	-3.123E+00	7.937E+00	9.47E-01	-1.27E+03	9.92E+02	0.314
		374	3.863E-02	1.965E+00	-4.577E-01	-3.844E-03	-2.610E+00	6.333E+00	9.47E-01	-1.06E+03	7.92E+02	0.257
331	3	364	2.023E+00	1.220E-01	8.466E-02	5.493E-03	6.884E-01	-9.296E+00	-4.96E+01	2.80E+02	-1.16E+03	0.207
			2.735E+00	1.227E+00	8.466E-02	1.225E-02	5.936E-01	9.900E+00	6.70E+01	2.41E+02	1.24E+03	0.215
		374	2.735E+00	2.333E+00	8.466E-02	1.225E-02	4.990E-01	7.979E+00	6.70E+01	2.03E+02	9.97E+02	0.176
331	4	364	-2.735E+00	-1.220E-01	-8.466E-02	-1.225E-02	-6.884E-01	-1.060E+01	6.70E+01	-2.80E+02	-1.33E+03	0.232
			-2.023E+00	9.835E-01	-8.466E-02	-5.493E-03	-5.936E-01	8.754E+00	-4.96E+01	-2.41E+02	1.09E+03	0.192
		374	-2.023E+00	2.089E+00	-8.466E-02	-5.493E-03	-4.990E-01	6.945E+00	-4.96E+01	-2.03E+02	8.68E+02	0.156
341	1	366	-1.628E-01	2.173E-01	4.201E-01	1.099E-02	3.343E+00	-8.454E+00	3.99E+00	1.36E+03	-1.06E+03	0.336
			5.484E-01	1.323E+00	4.201E-01	4.228E-03	2.872E+00	1.059E+01	1.34E+01	1.17E+03	1.32E+03	0.348
		376	5.484E-01	2.428E+00	4.201E-01	4.228E-03	2.401E+00	8.504E+00	1.34E+01	9.75E+02	1.06E+03	0.285
341	2	366	-5.484E-01	-2.173E-01	-4.201E-01	-4.228E-03	-3.343E+00	-1.144E+01	1.34E+01	-1.36E+03	-1.43E+03	0.389
			1.628E-01	8.881E-01	-4.201E-01	-1.099E-02	-2.872E+00	8.062E+00	3.99E+00	-1.17E+03	1.01E+03	0.303
		376	1.628E-01	1.994E+00	-4.201E-01	-1.099E-02	-2.401E+00	6.420E+00	3.99E+00	-9.75E+02	8.02E+02	0.247
341	3	366	2.026E+00	1.209E-01	8.017E-02	1.192E-02	6.557E-01	-9.297E+00	-4.97E+01	2.66E+02	-1.16E+03	0.205
			2.737E+00	1.226E+00	8.017E-02	5.156E-03	5.664E-01	9.898E+00	6.71E+01	2.30E+02	1.24E+03	0.213
		376	2.737E+00	2.332E+00	8.017E-02	5.156E-03	4.774E-01	7.976E+00	6.71E+01	1.94E+02	9.97E+02	0.175
341	4	366	-2.737E+00	-1.209E-01	-8.017E-02	-5.156E-03	-6.557E-01	-1.060E+01	6.71E+01	-2.66E+02	-1.33E+03	0.230
			-2.026E+00	9.846E-01	-8.017E-02	-1.192E-02	-5.664E-01	8.756E+00	-4.97E+01	-2.30E+02	1.09E+03	0.191
		376	-2.026E+00	2.090E+00	-8.017E-02	-1.192E-02	-4.774E-01	6.948E+00	-4.97E+01	-1.94E+02	8.68E+02	0.154
351	1	368	-2.178E-02	1.582E-01	3.949E-01	2.658E-02	3.140E+00	-8.837E+00	5.34E-01	1.28E+03	-1.10E+03	0.331
			4.483E-01	1.264E+00	3.949E-01	8.702E-03	2.697E+00	1.027E+01	1.10E+01	1.10E+03	1.28E+03	0.332
		378	4.483E-01	2.369E+00	3.949E-01	8.702E-03	2.255E+00	8.245E+00	1.10E+01	9.16E+02	1.03E+03	0.272
351	2	368	-4.483E-01	-1.582E-01	-3.949E-01	-8.702E-03	-3.140E+00	-1.106E+01	1.10E+01	-1.28E+03	-1.38E+03	0.371
			2.178E-02	9.473E-01	-3.949E-01	-2.658E-02	-2.697E+00	8.382E+00	5.34E-01	-1.10E+03	1.05E+03	0.298
		378	2.178E-02	2.053E+00	-3.949E-01	-2.658E-02	-2.255E+00	6.679E+00	5.34E-01	-9.16E+02	8.35E+02	0.243
351	3	368	1.720E+00	7.428E-02	7.804E-02	3.145E-02	6.374E-01	-9.519E+00	-4.22E+01	2.59E+02	-1.19E+03	0.207
			2.190E+00	1.180E+00	7.804E-02	1.357E-02	5.518E-01	9.704E+00	5.37E+01	2.24E+02	1.21E+03	0.207
		378	2.190E+00	2.285E+00	7.804E-02	1.357E-02	4.669E-01	7.798E+00	5.37E+01	1.90E+02	9.75E+02	0.169
351	4	368	-2.190E+00	-7.428E-02	-7.804E-02	-1.357E-02	-6.374E-01	-1.038E+01	5.37E+01	-2.59E+02	-1.30E+03	0.224
			-1.720E+00	1.031E+00	-7.804E-02	-3.145E-02	-5.518E-01	8.950E+00	-4.22E+01	-2.24E+02	1.12E+03	0.192

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		378	-1.720E+00	2.137E+00	-7.804E-02	-3.145E-02	-4.669E-01	7.126E+00	-4.22E+01	-1.90E+02	8.91E+02	0.156
361	1	370	1.981E+00	4.035E-01	2.651E-01	3.429E-02	1.437E+00	-5.122E+00	-4.86E+01	5.84E+02	-6.40E+02	0.177
			-1.113E+00	1.498E+00	3.096E-01	1.273E-02	1.146E+00	4.962E+00	-2.73E+01	4.65E+02	6.20E+02	0.155
		380	-1.113E+00	2.604E+00	3.096E-01	1.273E-02	8.525E-01	3.550E+00	-2.73E+01	3.46E+02	4.44E+02	0.114
361	2	370	1.113E+00	-3.928E-01	-3.096E-01	-1.273E-02	-1.441E+00	-5.139E+00	-2.73E+01	-5.85E+02	-6.42E+02	0.174
			-1.981E+00	7.019E-01	-2.651E-01	-3.429E-02	-1.091E+00	4.067E+00	-4.86E+01	-4.43E+02	5.08E+02	0.139
		380	-1.981E+00	1.807E+00	-2.651E-01	-3.429E-02	-7.481E-01	1.760E+00	-4.86E+01	-3.04E+02	2.20E+02	0.080
361	3	370	7.695E+00	4.502E+00	7.135E-02	4.080E-02	3.237E-01	-5.094E+00	-1.89E+02	1.31E+02	-6.37E+02	0.133
			4.601E+00	5.596E+00	1.158E-01	1.924E-02	2.794E-01	9.538E+00	1.13E+02	1.14E+02	1.19E+03	0.197
		380	4.601E+00	6.702E+00	1.158E-01	1.924E-02	2.602E-01	1.274E+01	1.13E+02	1.06E+02	1.59E+03	0.251
361	4	370	-4.601E+00	-4.491E+00	-1.158E-01	-1.924E-02	-3.280E-01	-5.167E+00	1.13E+02	-1.33E+02	-6.46E+02	0.124
			-7.695E+00	-3.396E+00	-7.135E-02	-4.080E-02	-2.251E-01	-5.090E-01	-1.89E+02	-9.14E+01	-6.36E+01	0.048
		380	-7.695E+00	-2.291E+00	-7.135E-02	-4.080E-02	-1.557E-01	-7.427E+00	-1.89E+02	-6.33E+01	-9.28E+02	0.164
312	1	371	2.076E+00	-1.778E+00	8.493E-01	1.090E-02	9.922E-01	-1.671E+00	-5.09E+01	4.03E+02	-2.09E+02	0.092
			-1.018E+00	3.738E+00	8.048E-01	3.246E-02	-1.374E-02	1.016E+00	-2.50E+01	-5.58E+00	1.27E+02	0.022
		320	-1.018E+00	4.844E+00	8.048E-01	3.246E-02	8.229E-01	-2.850E+00	-2.50E+01	3.34E+02	-3.56E+02	0.099
312	2	371	1.018E+00	-2.633E+00	-8.048E-01	-3.246E-02	-8.878E-01	-3.639E+00	-2.50E+01	-3.61E+02	-4.55E+02	0.117
			-2.076E+00	2.884E+00	-8.493E-01	-1.090E-02	-1.407E-01	-1.913E+00	-5.09E+01	-5.72E+01	-2.39E+02	0.048
		320	-2.076E+00	3.989E+00	-8.493E-01	-1.090E-02	-1.027E+00	-6.740E+00	-5.09E+01	-4.17E+02	-8.43E+02	0.182
312	3	371	8.262E+00	2.278E+00	2.119E-01	1.852E-02	3.224E-01	7.442E+00	-2.02E+02	1.31E+02	9.30E+02	0.176
			5.168E+00	7.795E+00	1.674E-01	4.008E-02	1.577E-01	1.469E+01	1.27E+02	6.41E+01	1.84E+03	0.282
		320	5.168E+00	8.900E+00	1.674E-01	4.008E-02	2.561E-01	1.539E+01	1.27E+02	1.04E+02	1.92E+03	0.299
312	4	371	-5.168E+00	-6.689E+00	-1.674E-01	-4.008E-02	-2.179E-01	-1.275E+01	1.27E+02	-8.85E+01	-1.59E+03	0.251
			-8.262E+00	-1.173E+00	-2.119E-01	-1.852E-02	-3.121E-01	-1.559E+01	-2.02E+02	-1.27E+02	-1.95E+03	0.316
		320	-8.262E+00	-6.733E-02	-2.119E-01	-1.852E-02	-4.606E-01	-2.498E+01	-2.02E+02	-1.87E+02	-3.12E+03	0.488
322	1	372	2.668E-01	-1.809E+00	1.257E+00	8.769E-03	2.828E+00	-6.558E+00	-6.54E+00	1.15E+03	-8.20E+02	0.274
			7.368E-01	3.718E+00	1.257E+00	2.665E-02	1.414E+00	4.805E+00	1.81E+01	5.74E+02	6.01E+02	0.166
		322	7.368E-01	4.824E+00	1.257E+00	2.665E-02	0.000E+00	0.000E+00	1.81E+01	0.00E+00	0.00E+00	0.003
322	2	372	-7.368E-01	-2.613E+00	-1.257E+00	-2.665E-02	-2.828E+00	-8.366E+00	1.81E+01	-1.15E+03	-1.05E+03	0.307
			-2.668E-01	2.915E+00	-1.257E+00	-8.769E-03	-1.414E+00	3.901E+00	-6.54E+00	-5.74E+02	4.88E+02	0.148
		322	-2.668E-01	4.020E+00	-1.257E+00	-8.769E-03	0.000E+00	0.000E+00	-6.54E+00	0.00E+00	0.00E+00	0.001
322	3	372	8.676E-01	-2.066E+00	2.330E-01	1.361E-02	5.243E-01	-7.135E+00	-2.13E+01	2.13E+02	-8.92E+02	0.156
			1.338E+00	3.462E+00	2.330E-01	3.149E-02	2.621E-01	4.516E+00	3.28E+01	1.06E+02	5.65E+02	0.098
		322	1.338E+00	4.567E+00	2.330E-01	3.149E-02	0.000E+00	0.000E+00	3.28E+01	0.00E+00	0.00E+00	0.005
322	4	372	-1.338E+00	-2.356E+00	-2.330E-01	-3.149E-02	-5.243E-01	-7.789E+00	3.28E+01	-2.13E+02	-9.74E+02	0.169
			-8.676E-01	3.171E+00	-2.330E-01	-1.361E-02	-2.621E-01	4.189E+00	-2.13E+01	-1.06E+02	5.24E+02	0.090
		322	-8.676E-01	4.277E+00	-2.330E-01	-1.361E-02	0.000E+00	0.000E+00	-2.13E+01	0.00E+00	0.00E+00	0.003
332	1	374	-6.406E-03	-1.709E+00	1.160E+00	3.844E-03	2.610E+00	-6.333E+00	1.57E-01	1.06E+03	-7.92E+02	0.257
			7.048E-01	3.818E+00	1.160E+00	1.061E-02	1.305E+00	4.917E+00	1.73E+01	5.30E+02	6.15E+02	0.161
		324	7.048E-01	4.924E+00	1.160E+00	1.061E-02	0.000E+00	0.000E+00	1.73E+01	0.00E+00	0.00E+00	0.002
332	2	374	-7.048E-01	-2.713E+00	-1.160E+00	-1.061E-02	-2.610E+00	-8.591E+00	1.73E+01	-1.06E+03	-1.07E+03	0.299
			6.406E-03	2.815E+00	-1.160E+00	-3.844E-03	-1.305E+00	3.788E+00	1.57E-01	-5.30E+02	4.74E+02	0.139
		324	6.406E-03	3.920E+00	-1.160E+00	-3.844E-03	0.000E+00	0.000E+00	1.57E-01	0.00E+00	0.00E+00	0.000

332	3	374	9.905E-01	-1.981E+00	2.218E-01	5.493E-03	4.990E-01	-6.945E+00	-2.43E+01	2.03E+02	-8.68E+02	0.152
			1.702E+00	3.546E+00	2.218E-01	1.225E-02	2.495E-01	4.611E+00	4.17E+01	1.01E+02	5.76E+02	0.100
		324	1.702E+00	4.652E+00	2.218E-01	1.225E-02	0.000E+00	0.000E+00	4.17E+01	0.00E+00	0.00E+00	0.006
332	4	374	-1.702E+00	-2.441E+00	-2.218E-01	-1.225E-02	-4.990E-01	-7.979E+00	4.17E+01	-2.03E+02	-9.97E+02	0.172
			-9.905E-01	3.087E+00	-2.218E-01	-5.493E-03	-2.495E-01	4.094E+00	-2.43E+01	-1.01E+02	5.12E+02	0.089
		324	-9.905E-01	4.192E+00	-2.218E-01	-5.493E-03	0.000E+00	0.000E+00	-2.43E+01	0.00E+00	0.00E+00	0.003
342	1	376	-1.068E-01	-1.748E+00	1.067E+00	1.099E-02	2.401E+00	-6.420E+00	2.62E+00	9.75E+02	-8.02E+02	0.247
			6.044E-01	3.780E+00	1.067E+00	4.228E-03	1.200E+00	4.874E+00	1.48E+01	4.88E+02	6.09E+02	0.154
		326	6.044E-01	4.885E+00	1.067E+00	4.228E-03	0.000E+00	0.000E+00	1.48E+01	0.00E+00	0.00E+00	0.002
342	2	376	-6.044E-01	-2.674E+00	-1.067E+00	-4.228E-03	-2.401E+00	-8.504E+00	1.48E+01	-9.75E+02	-1.06E+03	0.285
			1.068E-01	2.853E+00	-1.067E+00	-1.099E-02	-1.200E+00	3.832E+00	2.62E+00	-4.88E+02	4.79E+02	0.135
		326	1.068E-01	3.959E+00	-1.067E+00	-1.099E-02	0.000E+00	0.000E+00	2.62E+00	0.00E+00	0.00E+00	0.000
342	3	376	9.941E-01	-1.983E+00	2.122E-01	1.192E-02	4.774E-01	-6.948E+00	-2.44E+01	1.94E+02	-8.68E+02	0.151
			1.705E+00	3.545E+00	2.122E-01	5.156E-03	2.387E-01	4.610E+00	4.18E+01	9.70E+01	5.76E+02	0.099
		326	1.705E+00	4.650E+00	2.122E-01	5.156E-03	0.000E+00	0.000E+00	4.18E+01	0.00E+00	0.00E+00	0.006
342	4	376	-1.705E+00	-2.439E+00	-2.122E-01	-5.156E-03	-4.774E-01	-7.976E+00	4.18E+01	-1.94E+02	-9.97E+02	0.171
			-9.941E-01	3.088E+00	-2.122E-01	-1.192E-02	-2.387E-01	4.096E+00	-2.44E+01	-9.70E+01	5.12E+02	0.088
		326	-9.941E-01	4.193E+00	-2.122E-01	-1.192E-02	0.000E+00	0.000E+00	-2.44E+01	0.00E+00	0.00E+00	0.003
352	1	378	-2.157E-02	-1.863E+00	1.002E+00	2.658E-02	2.255E+00	-6.679E+00	5.29E-01	9.16E+02	-8.35E+02	0.243
			4.485E-01	3.664E+00	1.002E+00	8.702E-03	1.127E+00	4.744E+00	1.10E+01	4.58E+02	5.93E+02	0.148
		328	4.485E-01	4.770E+00	1.002E+00	8.702E-03	0.000E+00	0.000E+00	1.10E+01	0.00E+00	0.00E+00	0.002
352	2	378	-4.485E-01	-2.559E+00	-1.002E+00	-8.702E-03	-2.255E+00	-8.245E+00	1.10E+01	-9.16E+02	-1.03E+03	0.272
			2.157E-02	2.968E+00	-1.002E+00	-2.658E-02	-1.127E+00	3.961E+00	5.29E-01	-4.58E+02	4.95E+02	0.132
		328	2.157E-02	4.074E+00	-1.002E+00	-2.658E-02	0.000E+00	0.000E+00	5.29E-01	0.00E+00	0.00E+00	0.000
352	3	378	8.693E-01	-2.062E+00	2.075E-01	3.145E-02	4.669E-01	-7.126E+00	-2.13E+01	1.90E+02	-8.91E+02	0.153
			1.339E+00	3.466E+00	2.075E-01	1.357E-02	2.335E-01	4.521E+00	3.28E+01	9.48E+01	5.65E+02	0.096
		328	1.339E+00	4.571E+00	2.075E-01	1.357E-02	0.000E+00	0.000E+00	3.28E+01	0.00E+00	0.00E+00	0.005
352	4	378	-1.339E+00	-2.360E+00	-2.075E-01	-1.357E-02	-4.669E-01	-7.798E+00	3.28E+01	-1.90E+02	-9.75E+02	0.166
			-8.693E-01	3.167E+00	-2.075E-01	-3.145E-02	-2.335E-01	4.185E+00	-2.13E+01	-9.48E+01	5.23E+02	0.089
		328	-8.693E-01	4.272E+00	-2.075E-01	-3.145E-02	0.000E+00	0.000E+00	-2.13E+01	0.00E+00	0.00E+00	0.003
362	1	380	2.076E+00	-1.815E+00	7.022E-01	3.429E-02	7.481E-01	-1.760E+00	-5.09E+01	3.04E+02	-2.20E+02	0.080
			-1.018E+00	3.702E+00	7.467E-01	1.273E-02	1.306E-01	8.871E-01	-2.49E+01	5.31E+01	1.11E+02	0.026
		330	-1.018E+00	4.808E+00	7.467E-01	1.273E-02	9.351E-01	-3.020E+00	-2.49E+01	3.80E+02	-3.77E+02	0.109
362	2	380	1.018E+00	-2.597E+00	-7.467E-01	-1.273E-02	-8.525E-01	-3.550E+00	-2.49E+01	-3.46E+02	-4.44E+02	0.113
			-2.076E+00	2.920E+00	-7.022E-01	-3.429E-02	2.387E-02	-1.783E+00	-5.09E+01	9.70E+00	-2.23E+02	0.039
		330	-2.076E+00	4.025E+00	-7.022E-01	-3.429E-02	-7.306E-01	-6.570E+00	-5.09E+01	-2.97E+02	-8.21E+02	0.162
362	3	380	8.240E+00	2.271E+00	1.827E-01	4.080E-02	1.557E-01	7.427E+00	-2.02E+02	6.33E+01	9.28E+02	0.166
			5.146E+00	7.788E+00	2.272E-01	1.924E-02	3.109E-01	1.467E+01	1.26E+02	1.26E+02	1.83E+03	0.290
		330	5.146E+00	8.893E+00	2.272E-01	1.924E-02	5.173E-01	1.536E+01	1.26E+02	2.10E+02	1.92E+03	0.313
362	4	380	-5.146E+00	-6.682E+00	-2.272E-01	-1.924E-02	-2.602E-01	-1.274E+01	1.26E+02	-1.06E+02	-1.59E+03	0.253
			-8.240E+00	-1.166E+00	-1.827E-01	-4.080E-02	-1.564E-01	-1.557E+01	-2.02E+02	-6.35E+01	-1.95E+03	0.307
		330	-8.240E+00	-6.035E-02	-1.827E-01	-4.080E-02	-3.128E-01	-2.495E+01	-2.02E+02	-1.27E+02	-3.12E+03	0.479

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41	1	200	2.712E-01	5.216E+00	1.755E+00	1.080E-02	2.938E-01	9.757E+00	-6.65E+00	1.19E+02	1.22E+03	0.187
			4.702E-01	-2.551E+00	1.756E+00	2.779E-02	1.687E+00	8.501E-01	1.15E+01	6.85E+02	1.06E+02	0.112
		700	4.702E-01	-1.445E+00	1.756E+00	2.779E-02	3.662E+00	3.098E+00	1.15E+01	1.49E+03	3.87E+02	0.262
41	2	200	-4.702E-01	3.656E+00	-1.756E+00	-2.779E-02	-2.898E-01	2.641E+00	1.15E+01	-1.18E+02	3.30E+02	0.064
			-2.712E-01	-4.110E+00	-1.755E+00	-1.080E-02	-1.690E+00	-4.511E+00	-6.65E+00	-6.86E+02	-5.64E+02	0.175
		700	-2.712E-01	-3.005E+00	-1.755E+00	-1.080E-02	-3.664E+00	-5.094E-01	-6.65E+00	-1.49E+03	-6.37E+01	0.216
41	3	200	5.231E-01	1.150E+01	2.936E-01	1.901E-02	4.878E-02	3.813E+01	-1.28E+01	1.98E+01	4.77E+03	0.667
			7.221E-01	3.735E+00	2.945E-01	3.601E-02	2.841E-01	2.215E+01	1.77E+01	1.15E+02	2.77E+03	0.403
		700	7.221E-01	4.841E+00	2.945E-01	3.601E-02	6.153E-01	1.733E+01	1.77E+01	2.50E+02	2.17E+03	0.338
41	4	200	-7.221E-01	-2.630E+00	-2.945E-01	-3.601E-02	-4.473E-02	-2.573E+01	1.77E+01	-1.82E+01	-3.22E+03	0.452
			-5.231E-01	-1.040E+01	-2.936E-01	-1.901E-02	-2.871E-01	-2.582E+01	-1.28E+01	-1.17E+02	-3.23E+03	0.466
		700	-5.231E-01	-9.291E+00	-2.936E-01	-1.901E-02	-6.172E-01	-1.474E+01	-1.28E+01	-2.51E+02	-1.84E+03	0.293
42	1	202	9.499E-01	4.875E+00	1.732E+00	8.744E-03	0.000E+00	0.000E+00	-2.33E+01	0.00E+00	0.00E+00	0.003
			9.499E-01	-2.863E+00	1.732E+00	2.356E-02	1.949E+00	4.863E+00	2.33E+01	7.92E+02	6.08E+02	0.198
		702	9.499E-01	-1.758E+00	1.732E+00	2.356E-02	3.897E+00	8.482E+00	2.33E+01	1.58E+03	1.06E+03	0.370
42	2	202	-9.499E-01	3.968E+00	-1.732E+00	-2.356E-02	0.000E+00	0.000E+00	2.33E+01	0.00E+00	0.00E+00	0.003
			-9.499E-01	-3.770E+00	-1.732E+00	-8.744E-03	-1.949E+00	3.843E+00	-2.33E+01	-7.92E+02	4.80E+02	0.180
		702	-9.499E-01	-2.664E+00	-1.732E+00	-8.744E-03	-3.897E+00	6.442E+00	-2.33E+01	-1.58E+03	8.05E+02	0.335
42	3	202	9.266E-01	4.574E+00	2.895E-01	1.512E-02	0.000E+00	0.000E+00	-2.27E+01	0.00E+00	0.00E+00	0.003
			9.266E-01	-3.165E+00	2.895E-01	2.994E-02	3.257E-01	4.523E+00	2.27E+01	1.32E+02	5.65E+02	0.100
		702	9.266E-01	-2.059E+00	2.895E-01	2.994E-02	6.514E-01	7.803E+00	2.27E+01	2.65E+02	9.75E+02	0.175
42	4	202	-9.266E-01	4.270E+00	-2.895E-01	-2.994E-02	0.000E+00	0.000E+00	2.27E+01	0.00E+00	0.00E+00	0.003
			-9.266E-01	-3.468E+00	-2.895E-01	-1.512E-02	-3.257E-01	4.182E+00	-2.27E+01	-1.32E+02	5.23E+02	0.094
		702	-9.266E-01	-2.363E+00	-2.895E-01	-1.512E-02	-6.514E-01	7.120E+00	-2.27E+01	-2.65E+02	8.90E+02	0.164
43	1	204	7.244E-01	5.018E+00	1.631E+00	3.803E-03	0.000E+00	0.000E+00	-1.78E+01	0.00E+00	0.00E+00	0.002
			7.244E-01	-2.720E+00	1.631E+00	9.348E-03	1.834E+00	5.024E+00	1.78E+01	7.45E+02	6.28E+02	0.193
		704	7.244E-01	-1.614E+00	1.631E+00	9.348E-03	3.669E+00	8.804E+00	1.78E+01	1.49E+03	1.10E+03	0.362
43	2	204	-7.244E-01	3.825E+00	-1.631E+00	-9.348E-03	0.000E+00	0.000E+00	1.78E+01	0.00E+00	0.00E+00	0.002
			-7.244E-01	-3.913E+00	-1.631E+00	-3.803E-03	-1.834E+00	3.682E+00	-1.78E+01	-7.45E+02	4.60E+02	0.170
		704	-7.244E-01	-2.807E+00	-1.631E+00	-3.803E-03	-3.669E+00	6.120E+00	-1.78E+01	-1.49E+03	7.65E+02	0.316
43	3	204	1.175E+00	4.663E+00	2.737E-01	5.889E-03	0.000E+00	0.000E+00	-2.88E+01	0.00E+00	0.00E+00	0.004
			1.175E+00	-3.075E+00	2.737E-01	1.143E-02	3.079E-01	4.624E+00	2.88E+01	1.25E+02	5.78E+02	0.102
		704	1.175E+00	-1.970E+00	2.737E-01	1.143E-02	6.158E-01	8.004E+00	2.88E+01	2.50E+02	1.00E+03	0.178
43	4	204	-1.175E+00	4.181E+00	-2.737E-01	-1.143E-02	0.000E+00	0.000E+00	2.88E+01	0.00E+00	0.00E+00	0.004
			-1.175E+00	-3.557E+00	-2.737E-01	-5.889E-03	-3.079E-01	4.082E+00	-2.88E+01	-1.25E+02	5.10E+02	0.092
		704	-1.175E+00	-2.452E+00	-2.737E-01	-5.889E-03	-6.158E-01	6.920E+00	-2.88E+01	-2.50E+02	8.65E+02	0.159
44	1	206	5.724E-01	4.950E+00	1.485E+00	9.496E-03	0.000E+00	0.000E+00	-1.40E+01	0.00E+00	0.00E+00	0.002
			5.725E-01	-2.788E+00	1.485E+00	3.951E-03	1.671E+00	4.947E+00	1.40E+01	6.79E+02	6.18E+02	0.182
		706	5.725E-01	-1.682E+00	1.485E+00	3.951E-03	3.342E+00	8.651E+00	1.40E+01	1.36E+03	1.08E+03	0.341
44	2	206	-5.725E-01	3.893E+00	-1.485E+00	-3.951E-03	0.000E+00	0.000E+00	1.40E+01	0.00E+00	0.00E+00	0.002
			-5.724E-01	-3.845E+00	-1.485E+00	-9.496E-03	-1.671E+00	3.758E+00	-1.40E+01	-6.79E+02	4.70E+02	0.161
		706	-5.724E-01	-2.739E+00	-1.485E+00	-9.496E-03	-3.342E+00	6.273E+00	-1.40E+01	-1.36E+03	7.84E+02	0.299
44	3	206	1.182E+00	4.662E+00	2.510E-01	1.122E-02	0.000E+00	0.000E+00	-2.90E+01	0.00E+00	0.00E+00	0.004

			1.182E+00	-3.076E+00	2.510E-01	5.673E-03	2.823E-01	4.623E+00	2.90E+01	1.15E+02	5.78E+02	0.100
		706	1.182E+00	-1.971E+00	2.510E-01	5.673E-03	5.647E-01	8.002E+00	2.90E+01	2.29E+02	1.00E+03	0.175
44	4	206	-1.182E+00	4.182E+00	-2.510E-01	-5.673E-03	0.000E+00	0.000E+00	2.90E+01	0.00E+00	0.00E+00	0.004
			-1.182E+00	-3.557E+00	-2.510E-01	-1.122E-02	-2.823E-01	4.082E+00	-2.90E+01	-1.15E+02	5.10E+02	0.091
		706	-1.182E+00	-2.451E+00	-2.510E-01	-1.122E-02	-5.647E-01	6.921E+00	-2.90E+01	-2.29E+02	8.65E+02	0.156
45	1	208	4.352E-01	4.799E+00	1.314E+00	2.352E-02	0.000E+00	0.000E+00	-1.07E+01	0.00E+00	0.00E+00	0.001
			4.353E-01	-2.940E+00	1.314E+00	8.705E-03	1.479E+00	4.777E+00	1.07E+01	6.01E+02	5.97E+02	0.168
		708	4.353E-01	-1.834E+00	1.314E+00	8.705E-03	2.957E+00	8.309E+00	1.07E+01	1.20E+03	1.04E+03	0.313
45	2	208	-4.353E-01	4.045E+00	-1.314E+00	-8.705E-03	0.000E+00	0.000E+00	1.07E+01	0.00E+00	0.00E+00	0.001
			-4.352E-01	-3.693E+00	-1.314E+00	-2.352E-02	-1.479E+00	3.929E+00	-1.07E+01	-6.01E+02	4.91E+02	0.153
		708	-4.352E-01	-2.588E+00	-1.314E+00	-2.352E-02	-2.957E+00	6.614E+00	-1.07E+01	-1.20E+03	8.27E+02	0.283
45	3	208	9.158E-01	4.575E+00	2.264E-01	2.999E-02	0.000E+00	0.000E+00	-2.24E+01	0.00E+00	0.00E+00	0.003
			9.158E-01	-3.163E+00	2.264E-01	1.517E-02	2.547E-01	4.526E+00	2.24E+01	1.03E+02	5.66E+02	0.096
		708	9.158E-01	-2.057E+00	2.264E-01	1.517E-02	5.094E-01	7.807E+00	2.24E+01	2.07E+02	9.76E+02	0.167
45	4	208	-9.158E-01	4.268E+00	-2.264E-01	-1.517E-02	0.000E+00	0.000E+00	2.24E+01	0.00E+00	0.00E+00	0.003
			-9.158E-01	-3.470E+00	-2.264E-01	-2.999E-02	-2.547E-01	4.180E+00	-2.24E+01	-1.03E+02	5.22E+02	0.090
		708	-9.158E-01	-2.365E+00	-2.264E-01	-2.999E-02	-5.094E-01	7.116E+00	-2.24E+01	-2.07E+02	8.90E+02	0.155
46	1	210	1.776E-01	5.128E+00	1.169E+00	2.898E-02	2.059E-01	9.349E+00	-4.35E+00	8.36E+01	1.17E+03	0.175
			3.765E-01	-2.639E+00	1.168E+00	1.198E-02	1.115E+00	5.411E-01	9.23E+00	4.53E+02	6.76E+01	0.074
		710	3.765E-01	-1.533E+00	1.168E+00	1.198E-02	2.429E+00	2.888E+00	9.23E+00	9.87E+02	3.61E+02	0.188
46	2	210	-3.765E-01	3.744E+00	-1.168E+00	-1.198E-02	-2.099E-01	3.049E+00	9.23E+00	-8.53E+01	3.81E+02	0.066
			-1.776E-01	-4.022E+00	-1.169E+00	-2.898E-02	-1.113E+00	-4.202E+00	-4.35E+00	-4.52E+02	-5.25E+02	0.136
		710	-1.776E-01	-2.917E+00	-1.169E+00	-2.898E-02	-2.427E+00	-2.995E-01	-4.35E+00	-9.86E+02	-3.74E+01	0.143
46	3	210	5.368E-01	1.149E+01	2.061E-01	3.655E-02	3.112E-02	3.809E+01	-1.32E+01	1.26E+01	4.76E+03	0.665
			7.358E-01	3.725E+00	2.052E-01	1.955E-02	2.026E-01	2.212E+01	1.80E+01	8.23E+01	2.77E+03	0.398
		710	7.358E-01	4.831E+00	2.052E-01	1.955E-02	4.332E-01	1.731E+01	1.80E+01	1.76E+02	2.16E+03	0.327
46	4	210	-7.358E-01	-2.620E+00	-2.052E-01	-1.955E-02	-3.517E-02	-2.569E+01	1.80E+01	-1.43E+01	-3.21E+03	0.451
			-5.368E-01	-1.039E+01	-2.061E-01	-3.655E-02	-1.996E-01	-2.578E+01	-1.32E+01	-8.11E+01	-3.22E+03	0.461
		710	-5.368E-01	-9.281E+00	-2.061E-01	-3.655E-02	-4.313E-01	-1.472E+01	-1.32E+01	-1.75E+02	-1.84E+03	0.282
410	1	700	2.901E-02	3.024E+00	6.631E-01	1.080E-02	3.664E+00	5.094E-01	-7.11E-01	1.49E+03	6.37E+01	0.216
			2.280E-01	-3.203E-01	6.640E-01	2.779E-02	4.406E+00	4.080E+00	5.59E+00	1.79E+03	5.10E+02	0.320
		800	2.280E-01	7.852E-01	6.640E-01	2.779E-02	5.150E+00	3.822E+00	5.59E+00	2.09E+03	4.78E+02	0.358
410	2	700	-2.280E-01	1.426E+00	-6.640E-01	-2.779E-02	-3.662E+00	-3.098E+00	5.59E+00	-1.49E+03	-3.87E+02	0.261
			-2.901E-02	-1.919E+00	-6.631E-01	-1.080E-02	-4.407E+00	2.271E+00	-7.11E-01	-1.79E+03	2.84E+02	0.288
		800	-2.901E-02	-8.134E-01	-6.631E-01	-1.080E-02	-5.150E+00	3.805E+00	-7.11E-01	-2.09E+03	4.76E+02	0.357
410	3	700	1.154E-01	9.323E+00	1.046E-01	1.901E-02	6.172E-01	1.474E+01	-2.83E+00	2.51E+02	1.84E+03	0.291
			3.143E-01	5.979E+00	1.055E-01	3.601E-02	7.291E-01	1.123E+01	7.70E+00	2.96E+02	1.40E+03	0.237
		800	3.143E-01	7.084E+00	1.055E-01	3.601E-02	8.442E-01	3.880E+00	7.70E+00	3.43E+02	4.85E+02	0.116
410	4	700	-3.143E-01	-4.873E+00	-1.055E-01	-3.601E-02	-6.153E-01	-1.733E+01	7.70E+00	-2.50E+02	-2.17E+03	0.337
			-1.154E-01	-8.218E+00	-1.046E-01	-1.901E-02	-7.299E-01	-4.875E+00	-2.83E+00	-2.97E+02	-6.09E+02	0.126
		800	-1.154E-01	-7.112E+00	-1.046E-01	-1.901E-02	-8.439E-01	3.747E+00	-2.83E+00	-3.43E+02	4.68E+02	0.113
420	1	702	3.176E-01	2.343E+00	6.572E-01	8.744E-03	3.897E+00	-6.442E+00	-7.79E+00	1.58E+03	-8.05E+02	0.333
			3.177E-01	-9.729E-01	6.572E-01	2.356E-02	4.633E+00	1.048E+01	7.79E+00	1.88E+03	1.31E+03	0.444

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		802	3.177E-01	1.325E-01	6.572E-01	2.356E-02	5.370E+00	1.124E+01	7.79E+00	2.18E+03	1.40E+03	0.499
420	2	702	-3.177E-01	2.078E+00	-6.572E-01	-2.356E-02	-3.897E+00	-8.482E+00	7.79E+00	-1.58E+03	-1.06E+03	0.368
			-3.176E-01	-1.238E+00	-6.572E-01	-8.744E-03	-4.633E+00	8.175E+00	-7.79E+00	-1.88E+03	1.02E+03	0.404
		802	-3.176E-01	-1.325E-01	-6.572E-01	-8.744E-03	-5.370E+00	8.661E+00	-7.79E+00	-2.18E+03	1.08E+03	0.454
420	3	702	3.114E-01	2.283E+00	1.032E-01	1.512E-02	6.514E-01	-7.120E+00	-7.63E+00	2.65E+02	-8.90E+02	0.161
			3.114E-01	-1.033E+00	1.032E-01	2.994E-02	7.644E-01	9.697E+00	7.63E+00	3.11E+02	1.21E+03	0.213
		802	3.114E-01	7.223E-02	1.032E-01	2.994E-02	8.782E-01	1.036E+01	7.63E+00	3.57E+02	1.30E+03	0.230
420	4	702	-3.114E-01	2.139E+00	-1.032E-01	-2.994E-02	-6.514E-01	-7.803E+00	7.63E+00	-2.65E+02	-9.75E+02	0.173
			-3.114E-01	-1.178E+00	-1.032E-01	-1.512E-02	-7.644E-01	8.958E+00	-7.63E+00	-3.11E+02	1.12E+03	0.200
		802	-3.114E-01	-7.223E-02	-1.032E-01	-1.512E-02	-8.782E-01	9.537E+00	-7.63E+00	-3.57E+02	1.19E+03	0.216
430	1	704	2.424E-01	2.364E+00	6.180E-01	3.803E-03	3.669E+00	-6.120E+00	-5.94E+00	1.49E+03	-7.65E+02	0.314
			2.425E-01	-9.523E-01	6.180E-01	9.348E-03	4.361E+00	1.082E+01	5.94E+00	1.77E+03	1.35E+03	0.435
		804	2.425E-01	1.531E-01	6.180E-01	9.348E-03	5.054E+00	1.160E+01	5.94E+00	2.05E+03	1.45E+03	0.487
430	2	704	-2.425E-01	2.058E+00	-6.180E-01	-9.348E-03	-3.669E+00	-8.804E+00	5.94E+00	-1.49E+03	-1.10E+03	0.361
			-2.424E-01	-1.259E+00	-6.180E-01	-3.803E-03	-4.361E+00	7.833E+00	-5.94E+00	-1.77E+03	9.79E+02	0.383
		804	-2.424E-01	-1.531E-01	-6.180E-01	-3.803E-03	-5.054E+00	8.299E+00	-5.94E+00	-2.05E+03	1.04E+03	0.430
430	3	704	3.948E-01	2.326E+00	9.934E-02	5.889E-03	6.158E-01	-6.920E+00	-9.68E+00	2.50E+02	-8.65E+02	0.156
			3.948E-01	-9.905E-01	9.934E-02	1.143E-02	7.265E-01	9.913E+00	9.68E+00	2.95E+02	1.24E+03	0.214
		804	3.948E-01	1.150E-01	9.934E-02	1.143E-02	8.375E-01	1.060E+01	9.68E+00	3.40E+02	1.33E+03	0.233
430	4	704	-3.948E-01	2.096E+00	-9.934E-02	-1.143E-02	-6.158E-01	-8.004E+00	9.68E+00	-2.50E+02	-1.00E+03	0.175
			-3.948E-01	-1.220E+00	-9.934E-02	-5.889E-03	-7.265E-01	8.742E+00	-9.68E+00	-2.95E+02	1.09E+03	0.194
		804	-3.948E-01	-1.150E-01	-9.934E-02	-5.889E-03	-8.375E-01	9.298E+00	-9.68E+00	-3.40E+02	1.16E+03	0.210
440	1	706	1.916E-01	2.365E+00	5.652E-01	9.496E-03	3.342E+00	-6.273E+00	-4.70E+00	1.36E+03	-7.84E+02	0.298
			1.916E-01	-9.514E-01	5.652E-01	3.951E-03	3.975E+00	1.066E+01	4.70E+00	1.61E+03	1.33E+03	0.410
		806	1.916E-01	1.540E-01	5.652E-01	3.951E-03	4.608E+00	1.144E+01	4.70E+00	1.87E+03	1.43E+03	0.459
440	2	706	-1.916E-01	2.057E+00	-5.652E-01	-3.951E-03	-3.342E+00	-8.651E+00	4.70E+00	-1.36E+03	-1.08E+03	0.339
			-1.916E-01	-1.260E+00	-5.652E-01	-9.496E-03	-3.975E+00	7.991E+00	-4.70E+00	-1.61E+03	9.99E+02	0.364
		806	-1.916E-01	-1.540E-01	-5.652E-01	-9.496E-03	-4.608E+00	8.461E+00	-4.70E+00	-1.87E+03	1.06E+03	0.408
440	3	706	3.972E-01	2.324E+00	9.667E-02	1.122E-02	5.647E-01	-6.921E+00	-9.74E+00	2.29E+02	-8.65E+02	0.153
			3.972E-01	-9.924E-01	9.667E-02	5.673E-03	6.718E-01	9.912E+00	9.74E+00	2.73E+02	1.24E+03	0.211
		806	3.972E-01	1.131E-01	9.667E-02	5.673E-03	7.794E-01	1.060E+01	9.74E+00	3.17E+02	1.32E+03	0.229
440	4	706	-3.972E-01	2.098E+00	-9.667E-02	-5.673E-03	-5.647E-01	-8.002E+00	9.74E+00	-2.29E+02	-1.00E+03	0.172
			-3.972E-01	-1.219E+00	-9.667E-02	-1.122E-02	-6.718E-01	8.743E+00	-9.74E+00	-2.73E+02	1.09E+03	0.191
		806	-3.972E-01	-1.131E-01	-9.667E-02	-1.122E-02	-7.794E-01	9.298E+00	-9.74E+00	-3.17E+02	1.16E+03	0.207
450	1	708	1.455E-01	2.338E+00	5.094E-01	2.352E-02	2.957E+00	-6.614E+00	-3.57E+00	1.20E+03	-8.27E+02	0.282
			1.455E-01	-9.783E-01	5.094E-01	8.705E-03	3.528E+00	1.030E+01	3.57E+00	1.43E+03	1.29E+03	0.378
		808	1.455E-01	1.271E-01	5.094E-01	8.705E-03	4.099E+00	1.105E+01	3.57E+00	1.67E+03	1.38E+03	0.424
450	2	708	-1.455E-01	2.084E+00	-5.094E-01	-8.705E-03	-2.957E+00	-8.309E+00	3.57E+00	-1.20E+03	-1.04E+03	0.312
			-1.455E-01	-1.233E+00	-5.094E-01	-2.352E-02	-3.528E+00	8.355E+00	-3.57E+00	-1.43E+03	1.04E+03	0.345
		808	-1.455E-01	-1.271E-01	-5.094E-01	-2.352E-02	-4.099E+00	8.848E+00	-3.57E+00	-1.67E+03	1.11E+03	0.385
450	3	708	3.078E-01	2.282E+00	9.229E-02	2.999E-02	5.094E-01	-7.116E+00	-7.54E+00	2.07E+02	-8.90E+02	0.153
			3.078E-01	-1.034E+00	9.229E-02	1.517E-02	6.108E-01	9.708E+00	7.55E+00	2.48E+02	1.21E+03	0.204
		808	3.078E-01	7.114E-02	9.229E-02	1.517E-02	7.128E-01	1.038E+01	7.55E+00	2.90E+02	1.30E+03	0.221

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450	4	708	-3.078E-01	2.140E+00	-9.229E-02	-1.517E-02	-5.094E-01	-7.807E+00	7.55E+00	-2.07E+02	-9.76E+02	0.165
			-3.078E-01	-1.177E+00	-9.229E-02	-2.999E-02	-6.108E-01	8.946E+00	-7.54E+00	-2.48E+02	1.12E+03	0.191
		808	-3.078E-01	-7.114E-02	-9.229E-02	-2.999E-02	-7.128E-01	9.520E+00	-7.54E+00	-2.90E+02	1.19E+03	0.207
460	1	710	-3.765E-03	2.931E+00	4.706E-01	2.898E-02	2.427E+00	2.995E-01	9.23E-02	9.86E+02	3.74E+01	0.142
			1.952E-01	-4.135E-01	4.696E-01	1.198E-02	2.952E+00	3.975E+00	4.78E+00	1.20E+03	4.97E+02	0.236
		810	1.952E-01	6.920E-01	4.696E-01	1.198E-02	3.477E+00	3.829E+00	4.78E+00	1.41E+03	4.79E+02	0.263
460	2	710	-1.952E-01	1.519E+00	-4.696E-01	-1.198E-02	-2.429E+00	-2.888E+00	4.78E+00	-9.87E+02	-3.61E+02	0.188
			3.765E-03	-1.826E+00	-4.706E-01	-2.898E-02	-2.951E+00	2.376E+00	9.23E-02	-1.20E+03	2.97E+02	0.208
		810	3.765E-03	-7.202E-01	-4.706E-01	-2.898E-02	-3.477E+00	3.798E+00	9.23E-02	-1.41E+03	4.75E+02	0.262
460	3	710	1.201E-01	9.314E+00	8.710E-02	3.655E-02	4.313E-01	1.472E+01	-2.94E+00	1.75E+02	1.84E+03	0.280
			3.190E-01	5.969E+00	8.615E-02	1.955E-02	5.275E-01	1.122E+01	7.82E+00	2.14E+02	1.40E+03	0.226
		810	3.190E-01	7.075E+00	8.615E-02	1.955E-02	6.225E-01	3.880E+00	7.82E+00	2.53E+02	4.85E+02	0.104
460	4	710	-3.190E-01	-4.864E+00	-8.615E-02	-1.955E-02	-4.332E-01	-1.731E+01	7.82E+00	-1.76E+02	-2.16E+03	0.326
			-1.201E-01	-8.208E+00	-8.710E-02	-3.655E-02	-5.267E-01	-4.864E+00	-2.94E+00	-2.14E+02	-6.08E+02	0.115
		810	-1.201E-01	-7.103E+00	-8.710E-02	-3.655E-02	-6.228E-01	3.747E+00	-2.94E+00	-2.53E+02	4.68E+02	0.101
411	1	800	1.453E-02	8.138E-01	6.609E-01	1.080E-02	5.150E+00	-3.805E+00	-3.56E-01	2.09E+03	-4.76E+02	0.357
			2.135E-01	1.891E+00	6.618E-01	2.779E-02	4.409E+00	4.102E+00	5.23E+00	1.79E+03	5.13E+02	0.321
		900	2.135E-01	2.996E+00	6.618E-01	2.779E-02	3.669E+00	3.152E+00	5.23E+00	1.49E+03	3.94E+02	0.262
411	2	800	-2.135E-01	-7.855E-01	-6.618E-01	-2.779E-02	-5.150E+00	-3.822E+00	5.23E+00	-2.09E+03	-4.78E+02	0.358
			-1.453E-02	2.917E-01	-6.609E-01	-1.080E-02	-4.408E+00	2.313E+00	-3.56E-01	-1.79E+03	2.89E+02	0.289
		900	-1.453E-02	1.397E+00	-6.609E-01	-1.080E-02	-3.667E+00	-4.360E-01	-3.56E-01	-1.49E+03	-5.45E+01	0.215
411	3	800	9.420E-02	7.113E+00	1.123E-01	1.901E-02	8.439E-01	-3.747E+00	-2.31E+00	3.43E+02	-4.68E+02	0.113
			2.932E-01	8.190E+00	1.133E-01	3.601E-02	7.198E-01	1.113E+01	7.19E+00	2.92E+02	1.39E+03	0.235
		900	2.932E-01	9.296E+00	1.133E-01	3.601E-02	5.961E-01	1.727E+01	7.19E+00	2.42E+02	2.16E+03	0.334
411	4	800	-2.932E-01	-7.085E+00	-1.133E-01	-3.601E-02	-8.442E-01	-3.880E+00	7.19E+00	-3.43E+02	-4.85E+02	0.116
			-9.420E-02	-6.008E+00	-1.123E-01	-1.901E-02	-7.184E-01	-4.714E+00	-2.31E+00	-2.92E+02	-5.89E+02	0.123
		900	-9.420E-02	-4.902E+00	-1.123E-01	-1.901E-02	-5.937E-01	-1.455E+01	-2.31E+00	-2.41E+02	-1.82E+03	0.286
421	1	802	3.148E-01	1.827E-01	6.556E-01	8.744E-03	5.370E+00	-8.661E+00	-7.72E+00	2.18E+03	-1.08E+03	0.454
			3.148E-01	1.288E+00	6.556E-01	2.356E-02	4.635E+00	1.042E+01	7.72E+00	1.88E+03	1.30E+03	0.443
		902	3.148E-01	2.394E+00	6.556E-01	2.356E-02	3.900E+00	8.358E+00	7.72E+00	1.58E+03	1.04E+03	0.366
421	2	802	-3.148E-01	-1.827E-01	-6.556E-01	-2.356E-02	-5.370E+00	-1.124E+01	7.72E+00	-2.18E+03	-1.40E+03	0.499
			-3.148E-01	9.228E-01	-6.556E-01	-8.744E-03	-4.635E+00	8.237E+00	-7.72E+00	-1.88E+03	1.03E+03	0.406
		902	-3.148E-01	2.028E+00	-6.556E-01	-8.744E-03	-3.900E+00	6.565E+00	-7.72E+00	-1.58E+03	8.21E+02	0.335
421	3	802	3.038E-01	7.648E-02	1.117E-01	1.512E-02	8.782E-01	-9.537E+00	-7.45E+00	3.57E+02	-1.19E+03	0.216
			3.038E-01	1.182E+00	1.117E-01	2.994E-02	7.543E-01	9.689E+00	7.45E+00	3.06E+02	1.21E+03	0.212
		902	3.038E-01	2.287E+00	1.117E-01	2.994E-02	6.311E-01	7.787E+00	7.45E+00	2.56E+02	9.73E+02	0.172
421	4	802	-3.038E-01	-7.648E-02	-1.117E-01	-2.994E-02	-8.782E-01	-1.036E+01	7.45E+00	-3.57E+02	-1.30E+03	0.230
			-3.038E-01	1.029E+00	-1.117E-01	-1.512E-02	-7.543E-01	8.966E+00	-7.45E+00	-3.06E+02	1.12E+03	0.199
		902	-3.038E-01	2.134E+00	-1.117E-01	-1.512E-02	-6.311E-01	7.136E+00	-7.45E+00	-2.56E+02	8.92E+02	0.161
431	1	804	2.396E-01	2.447E-01	6.176E-01	3.803E-03	5.054E+00	-8.299E+00	-5.87E+00	2.05E+03	-1.04E+03	0.430
			2.396E-01	1.350E+00	6.176E-01	9.348E-03	4.361E+00	1.071E+01	5.87E+00	1.77E+03	1.34E+03	0.433
		904	2.396E-01	2.456E+00	6.176E-01	9.348E-03	3.669E+00	8.586E+00	5.87E+00	1.49E+03	1.07E+03	0.357

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431	2	804	-2.396E-01	-2.447E-01	-6.176E-01	-9.348E-03	-5.054E+00	-1.160E+01	5.87E+00	-2.05E+03	-1.45E+03	0.487
			-2.396E-01	8.607E-01	-6.176E-01	-3.803E-03	-4.361E+00	7.942E+00	-5.87E+00	-1.77E+03	9.93E+02	0.385
		904	-2.396E-01	1.966E+00	-6.176E-01	-3.803E-03	-3.669E+00	6.338E+00	-5.87E+00	-1.49E+03	7.92E+02	0.318
431	3	804	3.852E-01	1.218E-01	1.037E-01	5.889E-03	8.375E-01	-9.298E+00	-9.44E+00	3.40E+02	-1.16E+03	0.210
			3.852E-01	1.227E+00	1.037E-01	1.143E-02	7.219E-01	9.899E+00	9.44E+00	2.93E+02	1.24E+03	0.214
		904	3.852E-01	2.333E+00	1.037E-01	1.143E-02	6.068E-01	7.977E+00	9.44E+00	2.47E+02	9.97E+02	0.174
431	4	804	-3.852E-01	-1.218E-01	-1.037E-01	-1.143E-02	-8.375E-01	-1.060E+01	9.44E+00	-3.40E+02	-1.33E+03	0.233
			-3.852E-01	9.837E-01	-1.037E-01	-5.889E-03	-7.219E-01	8.756E+00	-9.44E+00	-2.93E+02	1.09E+03	0.194
		904	-3.852E-01	2.089E+00	-1.037E-01	-5.889E-03	-6.068E-01	6.946E+00	-9.44E+00	-2.47E+02	8.68E+02	0.156
441	1	806	1.893E-01	2.167E-01	5.614E-01	9.496E-03	4.608E+00	-8.461E+00	-4.64E+00	1.87E+03	-1.06E+03	0.408
			1.893E-01	1.322E+00	5.614E-01	3.951E-03	3.979E+00	1.059E+01	4.64E+00	1.62E+03	1.32E+03	0.409
		906	1.893E-01	2.428E+00	5.614E-01	3.951E-03	3.349E+00	8.498E+00	4.64E+00	1.36E+03	1.06E+03	0.337
441	2	806	-1.893E-01	-2.167E-01	-5.614E-01	-3.951E-03	-4.608E+00	-1.144E+01	4.64E+00	-1.87E+03	-1.43E+03	0.459
			-1.893E-01	8.888E-01	-5.614E-01	-9.496E-03	-3.979E+00	8.068E+00	-4.64E+00	-1.62E+03	1.01E+03	0.365
		906	-1.893E-01	1.994E+00	-5.614E-01	-9.496E-03	-3.349E+00	6.425E+00	-4.64E+00	-1.36E+03	8.03E+02	0.301
441	3	806	3.876E-01	1.207E-01	9.174E-02	1.122E-02	7.794E-01	-9.298E+00	-9.50E+00	3.17E+02	-1.16E+03	0.207
			3.876E-01	1.226E+00	9.174E-02	5.673E-03	6.770E-01	9.897E+00	9.50E+00	2.75E+02	1.24E+03	0.211
		906	3.876E-01	2.332E+00	9.174E-02	5.673E-03	5.747E-01	7.974E+00	9.50E+00	2.33E+02	9.97E+02	0.172
441	4	806	-3.876E-01	-1.207E-01	-9.174E-02	-5.673E-03	-7.794E-01	-1.060E+01	9.50E+00	-3.17E+02	-1.32E+03	0.229
			-3.876E-01	9.848E-01	-9.174E-02	-1.122E-02	-6.770E-01	8.757E+00	-9.50E+00	-2.75E+02	1.09E+03	0.192
		906	-3.876E-01	2.090E+00	-9.174E-02	-1.122E-02	-5.747E-01	6.949E+00	-9.50E+00	-2.33E+02	8.69E+02	0.154
451	1	808	1.443E-01	1.567E-01	4.927E-01	2.352E-02	4.099E+00	-8.848E+00	-3.54E+00	1.67E+03	-1.11E+03	0.385
			1.443E-01	1.262E+00	4.927E-01	8.705E-03	3.546E+00	1.026E+01	3.54E+00	1.44E+03	1.28E+03	0.379
		908	1.443E-01	2.368E+00	4.927E-01	8.705E-03	2.993E+00	8.237E+00	3.54E+00	1.22E+03	1.03E+03	0.312
451	2	808	-1.443E-01	-1.567E-01	-4.927E-01	-8.705E-03	-4.099E+00	-1.105E+01	3.54E+00	-1.67E+03	-1.38E+03	0.424
			-1.443E-01	9.487E-01	-4.927E-01	-2.352E-02	-3.546E+00	8.392E+00	-3.54E+00	-1.44E+03	1.05E+03	0.346
		908	-1.443E-01	2.054E+00	-4.927E-01	-2.352E-02	-2.993E+00	6.687E+00	-3.54E+00	-1.22E+03	8.36E+02	0.285
451	3	808	3.002E-01	7.404E-02	8.096E-02	2.999E-02	7.128E-01	-9.520E+00	-7.36E+00	2.90E+02	-1.19E+03	0.207
			3.002E-01	1.179E+00	8.096E-02	1.517E-02	6.239E-01	9.703E+00	7.36E+00	2.53E+02	1.21E+03	0.205
		908	3.002E-01	2.285E+00	8.096E-02	1.517E-02	5.356E-01	7.797E+00	7.36E+00	2.18E+02	9.75E+02	0.167
451	4	808	-3.002E-01	-7.404E-02	-8.096E-02	-1.517E-02	-7.128E-01	-1.038E+01	7.36E+00	-2.90E+02	-1.30E+03	0.221
			-3.002E-01	1.031E+00	-8.096E-02	-2.999E-02	-6.239E-01	8.952E+00	-7.36E+00	-2.53E+02	1.12E+03	0.192
		908	-3.002E-01	2.137E+00	-8.096E-02	-2.999E-02	-5.356E-01	7.127E+00	-7.36E+00	-2.18E+02	8.91E+02	0.155
461	1	810	-1.343E-02	7.205E-01	4.298E-01	2.898E-02	3.477E+00	-3.798E+00	3.29E-01	1.41E+03	-4.75E+02	0.262
			1.855E-01	1.798E+00	4.289E-01	1.198E-02	2.995E+00	3.997E+00	4.55E+00	1.22E+03	5.00E+02	0.239
		910	1.855E-01	2.903E+00	4.289E-01	1.198E-02	2.514E+00	2.942E+00	4.55E+00	1.02E+03	3.68E+02	0.194
461	2	810	-1.855E-01	-6.922E-01	-4.289E-01	-1.198E-02	-3.477E+00	-3.829E+00	4.55E+00	-1.41E+03	-4.79E+02	0.263
			1.343E-02	3.850E-01	-4.298E-01	-2.898E-02	-2.996E+00	2.418E+00	3.29E-01	-1.22E+03	3.02E+02	0.211
		910	1.343E-02	1.490E+00	-4.298E-01	-2.898E-02	-2.516E+00	-2.264E-01	3.29E-01	-1.02E+03	-2.83E+01	0.146
461	3	810	9.848E-02	7.103E+00	7.308E-02	3.655E-02	6.228E-01	-3.747E+00	-2.41E+00	2.53E+02	-4.68E+02	0.101
			2.974E-01	8.181E+00	7.212E-02	1.955E-02	5.434E-01	1.112E+01	7.29E+00	2.21E+02	1.39E+03	0.225
		910	2.974E-01	9.286E+00	7.212E-02	1.955E-02	4.652E-01	1.724E+01	7.29E+00	1.89E+02	2.16E+03	0.327
461	4	810	-2.974E-01	-7.075E+00	-7.212E-02	-1.955E-02	-6.225E-01	-3.880E+00	7.29E+00	-2.53E+02	-4.85E+02	0.104

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			-9.848E-02	-5.998E+00	-7.308E-02	-3.655E-02	-5.447E-01	-4.703E+00	-2.41E+00	-2.21E+02	-5.88E+02	0.113
		910	-9.848E-02	-4.892E+00	-7.308E-02	-3.655E-02	-4.677E-01	-1.453E+01	-2.41E+00	-1.90E+02	-1.82E+03	0.279
412	1	900	2.568E-01	-1.416E+00	1.757E+00	1.080E-02	3.667E+00	4.360E-01	-6.29E+00	1.49E+03	5.45E+01	0.215
			4.557E-01	4.083E+00	1.758E+00	2.779E-02	1.693E+00	9.367E-01	1.12E+01	6.88E+02	1.17E+02	0.113
		220	4.557E-01	5.188E+00	1.758E+00	2.779E-02	2.940E-01	-2.522E+00	1.12E+01	1.19E+02	-3.15E+02	0.062
412	2	900	-4.557E-01	-2.977E+00	-1.758E+00	-2.779E-02	-3.669E+00	-3.152E+00	1.12E+01	-1.49E+03	-3.94E+02	0.263
			-2.568E-01	2.522E+00	-1.757E+00	-1.080E-02	-1.689E+00	-4.407E+00	-6.29E+00	-6.86E+02	-5.51E+02	0.173
		220	-2.568E-01	3.627E+00	-1.757E+00	-1.080E-02	-2.894E-01	-9.622E+00	-6.29E+00	-1.18E+02	-1.20E+03	0.184
412	3	900	5.020E-01	4.870E+00	2.827E-01	1.901E-02	5.937E-01	1.455E+01	-1.23E+01	2.41E+02	1.82E+03	0.288
			7.009E-01	1.037E+01	2.837E-01	3.601E-02	2.782E-01	2.212E+01	1.72E+01	1.13E+02	2.77E+03	0.402
		220	7.009E-01	1.147E+01	2.837E-01	3.601E-02	4.671E-02	2.574E+01	1.72E+01	1.90E+01	3.22E+03	0.452
412	4	900	-7.009E-01	-9.264E+00	-2.837E-01	-3.601E-02	-5.961E-01	-1.727E+01	1.72E+01	-2.42E+02	-2.16E+03	0.336
			-5.020E-01	-3.765E+00	-2.827E-01	-1.901E-02	-2.747E-01	-2.559E+01	-1.23E+01	-1.12E+02	-3.20E+03	0.462
		220	-5.020E-01	-2.659E+00	-2.827E-01	-1.901E-02	-4.212E-02	-3.788E+01	-1.23E+01	-1.71E+01	-4.74E+03	0.662
422	1	902	9.471E-01	-1.813E+00	1.733E+00	8.744E-03	3.900E+00	-6.565E+00	-2.32E+01	1.58E+03	-8.21E+02	0.337
			9.471E-01	3.715E+00	1.733E+00	2.356E-02	1.950E+00	4.801E+00	2.32E+01	7.92E+02	6.00E+02	0.197
		222	9.471E-01	4.820E+00	1.733E+00	2.356E-02	0.000E+00	0.000E+00	2.32E+01	0.00E+00	0.00E+00	0.003
422	2	902	-9.471E-01	-2.609E+00	-1.733E+00	-2.356E-02	-3.900E+00	-8.358E+00	2.32E+01	-1.58E+03	-1.04E+03	0.368
			-9.471E-01	2.918E+00	-1.733E+00	-8.744E-03	-1.950E+00	3.905E+00	-2.32E+01	-7.92E+02	4.88E+02	0.181
		222	-9.471E-01	4.023E+00	-1.733E+00	-8.744E-03	0.000E+00	0.000E+00	-2.32E+01	0.00E+00	0.00E+00	0.003
422	3	902	9.190E-01	-2.066E+00	2.805E-01	1.512E-02	6.311E-01	-7.136E+00	-2.25E+01	2.56E+02	-8.92E+02	0.163
			9.190E-01	3.461E+00	2.805E-01	2.994E-02	3.155E-01	4.515E+00	2.25E+01	1.28E+02	5.64E+02	0.099
		222	9.190E-01	4.566E+00	2.805E-01	2.994E-02	0.000E+00	0.000E+00	2.25E+01	0.00E+00	0.00E+00	0.003
422	4	902	-9.190E-01	-2.356E+00	-2.805E-01	-2.994E-02	-6.311E-01	-7.787E+00	2.25E+01	-2.56E+02	-9.73E+02	0.174
			-9.190E-01	3.172E+00	-2.805E-01	-1.512E-02	-3.155E-01	4.190E+00	-2.25E+01	-1.28E+02	5.24E+02	0.094
		222	-9.190E-01	4.277E+00	-2.805E-01	-1.512E-02	0.000E+00	0.000E+00	-2.25E+01	0.00E+00	0.00E+00	0.003
432	1	904	7.215E-01	-1.711E+00	1.630E+00	3.803E-03	3.669E+00	-6.338E+00	-1.77E+01	1.49E+03	-7.92E+02	0.319
			7.216E-01	3.816E+00	1.630E+00	9.348E-03	1.834E+00	4.915E+00	1.77E+01	7.45E+02	6.14E+02	0.191
		224	7.216E-01	4.922E+00	1.630E+00	9.348E-03	0.000E+00	0.000E+00	1.77E+01	0.00E+00	0.00E+00	0.002
432	2	904	-7.216E-01	-2.711E+00	-1.630E+00	-9.348E-03	-3.669E+00	-8.586E+00	1.77E+01	-1.49E+03	-1.07E+03	0.359
			-7.215E-01	2.817E+00	-1.630E+00	-3.803E-03	-1.834E+00	3.791E+00	-1.77E+01	-7.45E+02	4.74E+02	0.172
		224	-7.215E-01	3.922E+00	-1.630E+00	-3.803E-03	0.000E+00	0.000E+00	-1.77E+01	0.00E+00	0.00E+00	0.002
432	3	904	1.165E+00	-1.982E+00	2.697E-01	5.889E-03	6.068E-01	-6.946E+00	-2.86E+01	2.47E+02	-8.68E+02	0.159
			1.165E+00	3.545E+00	2.697E-01	1.143E-02	3.034E-01	4.610E+00	2.86E+01	1.23E+02	5.76E+02	0.101
		224	1.165E+00	4.651E+00	2.697E-01	1.143E-02	0.000E+00	0.000E+00	2.86E+01	0.00E+00	0.00E+00	0.004
432	4	904	-1.165E+00	-2.440E+00	-2.697E-01	-1.143E-02	-6.068E-01	-7.977E+00	2.86E+01	-2.47E+02	-9.97E+02	0.177
			-1.165E+00	3.087E+00	-2.697E-01	-5.889E-03	-3.034E-01	4.095E+00	-2.86E+01	-1.23E+02	5.12E+02	0.092
		224	-1.165E+00	4.193E+00	-2.697E-01	-5.889E-03	0.000E+00	0.000E+00	-2.86E+01	0.00E+00	0.00E+00	0.004
442	1	906	5.701E-01	-1.750E+00	1.489E+00	9.496E-03	3.349E+00	-6.425E+00	-1.40E+01	1.36E+03	-8.03E+02	0.302
			5.701E-01	3.777E+00	1.489E+00	3.951E-03	1.675E+00	4.871E+00	1.40E+01	6.80E+02	6.09E+02	0.181
		226	5.701E-01	4.882E+00	1.489E+00	3.951E-03	0.000E+00	0.000E+00	1.40E+01	0.00E+00	0.00E+00	0.002
442	2	906	-5.701E-01	-2.672E+00	-1.489E+00	-3.951E-03	-3.349E+00	-8.498E+00	1.40E+01	-1.36E+03	-1.06E+03	0.338
			-5.701E-01	2.856E+00	-1.489E+00	-9.496E-03	-1.675E+00	3.834E+00	-1.40E+01	-6.80E+02	4.79E+02	0.163

		226	-5.701E-01	3.961E+00	-1.489E+00	-9.496E-03	0.000E+00	0.000E+00	-1.40E+01	0.00E+00	0.00E+00	0.002
442	3	906	1.172E+00	-1.983E+00	2.554E-01	1.122E-02	5.747E-01	-6.949E+00	-2.87E+01	2.33E+02	-8.69E+02	0.157
			1.172E+00	3.544E+00	2.554E-01	5.673E-03	2.874E-01	4.609E+00	2.87E+01	1.17E+02	5.76E+02	0.100
		226	1.172E+00	4.650E+00	2.554E-01	5.673E-03	0.000E+00	0.000E+00	2.87E+01	0.00E+00	0.00E+00	0.004
442	4	906	-1.172E+00	-2.439E+00	-2.554E-01	-5.673E-03	-5.747E-01	-7.974E+00	2.87E+01	-2.33E+02	-9.97E+02	0.175
			-1.172E+00	3.089E+00	-2.554E-01	-1.122E-02	-2.874E-01	4.096E+00	-2.87E+01	-1.17E+02	5.12E+02	0.091
		226	-1.172E+00	4.194E+00	-2.554E-01	-1.122E-02	0.000E+00	0.000E+00	-2.87E+01	0.00E+00	0.00E+00	0.004
452	1	908	4.340E-01	-1.867E+00	1.330E+00	2.352E-02	2.993E+00	-6.687E+00	-1.06E+01	1.22E+03	-8.36E+02	0.286
			4.340E-01	3.661E+00	1.330E+00	8.705E-03	1.497E+00	4.740E+00	1.06E+01	6.08E+02	5.93E+02	0.168
		228	4.340E-01	4.766E+00	1.330E+00	8.705E-03	0.000E+00	0.000E+00	1.06E+01	0.00E+00	0.00E+00	0.001
452	2	908	-4.340E-01	-2.555E+00	-1.330E+00	-8.705E-03	-2.993E+00	-8.237E+00	1.06E+01	-1.22E+03	-1.03E+03	0.313
			-4.340E-01	2.972E+00	-1.330E+00	-2.352E-02	-1.497E+00	3.965E+00	-1.06E+01	-6.08E+02	4.96E+02	0.155
		228	-4.340E-01	4.077E+00	-1.330E+00	-2.352E-02	0.000E+00	0.000E+00	-1.06E+01	0.00E+00	0.00E+00	0.001
452	3	908	9.082E-01	-2.062E+00	2.381E-01	2.999E-02	5.356E-01	-7.127E+00	-2.23E+01	2.18E+02	-8.91E+02	0.157
			9.082E-01	3.465E+00	2.381E-01	1.517E-02	2.678E-01	4.520E+00	2.23E+01	1.09E+02	5.65E+02	0.097
		228	9.082E-01	4.571E+00	2.381E-01	1.517E-02	0.000E+00	0.000E+00	2.23E+01	0.00E+00	0.00E+00	0.003
452	4	908	-9.082E-01	-2.360E+00	-2.381E-01	-1.517E-02	-5.356E-01	-7.797E+00	2.23E+01	-2.18E+02	-9.75E+02	0.169
			-9.082E-01	3.168E+00	-2.381E-01	-2.999E-02	-2.678E-01	4.185E+00	-2.23E+01	-1.09E+02	5.23E+02	0.091
		228	-9.082E-01	4.273E+00	-2.381E-01	-2.999E-02	0.000E+00	0.000E+00	-2.23E+01	0.00E+00	0.00E+00	0.003
462	1	910	1.679E-01	-1.504E+00	1.205E+00	2.898E-02	2.516E+00	2.264E-01	-4.12E+00	1.02E+03	2.83E+01	0.146
			3.669E-01	3.995E+00	1.204E+00	1.198E-02	1.159E+00	6.276E-01	8.99E+00	4.71E+02	7.85E+01	0.078
		230	3.669E-01	5.100E+00	1.204E+00	1.198E-02	2.013E-01	-2.930E+00	8.99E+00	8.18E+01	-3.66E+02	0.063
462	2	910	-3.669E-01	-2.889E+00	-1.204E+00	-1.198E-02	-2.514E+00	-2.942E+00	8.99E+00	-1.02E+03	-3.68E+02	0.194
			-1.679E-01	2.610E+00	-1.205E+00	-2.898E-02	-1.162E+00	-4.098E+00	-4.12E+00	-4.72E+02	-5.12E+02	0.137
		230	-1.679E-01	3.715E+00	-1.205E+00	-2.898E-02	-2.059E-01	-9.214E+00	-4.12E+00	-8.36E+01	-1.15E+03	0.172
462	3	910	5.152E-01	4.860E+00	2.225E-01	3.655E-02	4.677E-01	1.453E+01	-1.26E+01	1.90E+02	1.82E+03	0.280
			7.141E-01	1.036E+01	2.215E-01	1.955E-02	2.151E-01	2.209E+01	1.75E+01	8.74E+01	2.76E+03	0.398
		230	7.141E-01	1.146E+01	2.215E-01	1.955E-02	3.347E-02	2.569E+01	1.75E+01	1.36E+01	3.21E+03	0.450
462	4	910	-7.141E-01	-9.254E+00	-2.215E-01	-1.955E-02	-4.652E-01	-1.724E+01	1.75E+01	-1.89E+02	-2.16E+03	0.328
			-5.152E-01	-3.755E+00	-2.225E-01	-3.655E-02	-2.186E-01	-2.556E+01	-1.26E+01	-8.88E+01	-3.20E+03	0.458
		230	-5.152E-01	-2.650E+00	-2.225E-01	-3.655E-02	-3.806E-02	-3.784E+01	-1.26E+01	-1.55E+01	-4.73E+03	0.661
50	1	101	2.525E-01	2.255E-01	2.015E-02	8.911E-03	6.953E-02	1.360E+00	-1.01E+01	1.74E+02	2.10E+03	0.318
			-2.597E-02	-1.569E-01	1.157E-02	3.043E-02	3.470E-02	-4.845E-01	-1.04E+00	8.67E+01	-7.49E+02	0.116
		121	-2.597E-02	-9.389E-02	1.157E-02	3.043E-02	5.030E-02	1.022E-01	-1.04E+00	1.26E+02	1.58E+02	0.040
50	2	101	2.597E-02	2.200E-01	-1.157E-02	-3.043E-02	-1.066E-01	1.335E+00	-1.04E+00	-2.66E+02	2.06E+03	0.324
			-2.525E-01	-1.624E-01	-2.015E-02	-8.911E-03	-3.628E-02	-4.901E-01	-1.01E+01	-9.07E+01	-7.57E+02	0.119
		121	-2.525E-01	-9.937E-02	-2.015E-02	-8.911E-03	-9.050E-02	7.665E-02	-1.01E+01	-2.26E+02	1.18E+02	0.049
50	3	101	2.142E-01	2.391E-01	2.403E-02	1.799E-02	7.713E-02	1.410E+00	-8.57E+00	1.93E+02	2.18E+03	0.331
			-6.428E-02	-1.433E-01	1.545E-02	3.952E-02	7.989E-03	-4.754E-01	-2.57E+00	2.00E+01	-7.35E+02	0.105
		121	-6.428E-02	-8.027E-02	1.545E-02	3.952E-02	6.227E-02	1.749E-01	-2.57E+00	1.56E+02	2.70E+02	0.060
50	4	101	6.428E-02	2.064E-01	-1.545E-02	-3.952E-02	-1.142E-01	1.286E+00	-2.57E+00	-2.85E+02	1.99E+03	0.316
			-2.142E-01	-1.761E-01	-2.403E-02	-1.799E-02	-9.573E-03	-4.992E-01	-8.57E+00	-2.39E+01	-7.71E+02	0.112
		121	-2.142E-01	-1.130E-01	-2.403E-02	-1.799E-02	-1.025E-01	3.931E-03	-8.57E+00	-2.56E+02	6.08E+00	0.038

51	1	103	5.478E-01	2.174E-01	1.996E-02	5.686E-03	7.735E-02	1.334E+00	-2.19E+01	1.93E+02	2.06E+03	0.316
			-6.334E-02	-1.470E-01	1.239E-02	1.900E-02	2.148E-02	-4.922E-01	-2.53E+00	5.37E+01	-7.61E+02	0.113
		123	-6.334E-02	-8.393E-02	1.239E-02	1.900E-02	3.603E-02	5.563E-02	-2.53E+00	9.01E+01	8.60E+01	0.025
51	2	103	6.334E-02	2.100E-01	-1.239E-02	-1.900E-02	-1.090E-01	1.297E+00	-2.53E+00	-2.72E+02	2.00E+03	0.317
			-5.478E-01	-1.543E-01	-1.996E-02	-5.686E-03	-2.391E-02	-4.991E-01	-2.19E+01	-5.98E+01	-7.71E+02	0.118
		123	-5.478E-01	-9.128E-02	-1.996E-02	-5.686E-03	-7.250E-02	2.531E-02	-2.19E+01	-1.81E+02	3.91E+01	0.034
51	3	103	4.993E-01	2.164E-01	1.651E-02	1.129E-02	4.638E-02	1.326E+00	-2.00E+01	1.16E+02	2.05E+03	0.303
			-1.119E-01	-1.479E-01	8.944E-03	2.461E-02	4.512E-03	-4.882E-01	-4.47E+00	1.13E+01	-7.54E+02	0.107
		123	-1.119E-01	-8.488E-02	8.944E-03	2.461E-02	3.428E-02	5.786E-02	-4.47E+00	8.57E+01	8.94E+01	0.025
51	4	103	1.119E-01	2.110E-01	-8.944E-03	-2.461E-02	-7.800E-02	1.305E+00	-4.47E+00	-1.95E+02	2.02E+03	0.308
			-4.993E-01	-1.534E-01	-1.651E-02	-1.129E-02	-6.938E-03	-5.031E-01	-2.00E+01	-1.73E+01	-7.77E+02	0.113
		123	-4.993E-01	-9.032E-02	-1.651E-02	-1.129E-02	-7.075E-02	2.308E-02	-2.00E+01	-1.77E+02	3.57E+01	0.032
52	1	105	6.120E-01	2.178E-01	1.742E-02	2.632E-03	9.846E-02	1.335E+00	-2.45E+01	2.46E+02	2.06E+03	0.324
			-1.254E-01	-1.465E-01	1.742E-02	2.632E-03	2.079E-02	-4.919E-01	-5.02E+00	5.20E+01	-7.60E+02	0.113
		125	-1.254E-01	-8.345E-02	1.742E-02	2.632E-03	5.885E-02	5.832E-02	-5.02E+00	1.47E+02	9.01E+01	0.034
52	2	105	1.254E-01	2.096E-01	-1.742E-02	-2.632E-03	-9.846E-02	1.295E+00	-5.02E+00	-2.46E+02	2.00E+03	0.313
			-6.120E-01	-1.548E-01	-1.742E-02	-2.632E-03	-2.079E-02	-4.988E-01	-2.45E+01	-5.20E+01	-7.71E+02	0.118
		125	-6.120E-01	-9.169E-02	-1.742E-02	-2.632E-03	-5.885E-02	2.294E-02	-2.45E+01	-1.47E+02	3.55E+01	0.029
52	3	105	6.146E-01	2.169E-01	3.641E-03	5.262E-04	2.082E-02	1.328E+00	-2.46E+01	5.21E+01	2.05E+03	0.296
			-1.228E-01	-1.474E-01	3.641E-03	5.262E-04	4.527E-03	-4.874E-01	-4.91E+00	1.13E+01	-7.53E+02	0.107
		125	-1.228E-01	-8.432E-02	3.641E-03	5.262E-04	1.201E-02	6.027E-02	-4.91E+00	3.00E+01	9.31E+01	0.018
52	4	105	1.228E-01	2.104E-01	-3.641E-03	-5.262E-04	-2.082E-02	1.302E+00	-4.91E+00	-5.21E+01	2.01E+03	0.287
			-6.146E-01	-1.539E-01	-3.641E-03	-5.262E-04	-4.527E-03	-5.033E-01	-2.46E+01	-1.13E+01	-7.78E+02	0.113
		125	-6.146E-01	-9.083E-02	-3.641E-03	-5.262E-04	-1.201E-02	2.100E-02	-2.46E+01	-3.00E+01	3.25E+01	0.012
53	1	107	4.944E-01	2.170E-01	1.547E-02	1.908E-02	1.209E-01	1.331E+00	-1.98E+01	3.02E+02	2.06E+03	0.330
			-1.167E-01	-1.474E-01	2.304E-02	5.759E-03	2.181E-02	-4.926E-01	-4.67E+00	5.45E+01	-7.61E+02	0.114
		127	-1.167E-01	-8.435E-02	2.304E-02	5.759E-03	8.763E-02	5.457E-02	-4.67E+00	2.19E+02	8.43E+01	0.043
53	2	107	1.167E-01	2.105E-01	-2.304E-02	-5.759E-03	-8.931E-02	1.300E+00	-4.67E+00	-2.23E+02	2.01E+03	0.311
			-4.944E-01	-1.539E-01	-1.547E-02	-1.908E-02	-1.939E-02	-4.986E-01	-1.98E+01	-4.85E+01	-7.71E+02	0.116
		127	-4.944E-01	-9.085E-02	-1.547E-02	-1.908E-02	-5.115E-02	2.637E-02	-1.98E+01	-1.28E+02	4.08E+01	0.026
53	3	107	5.007E-01	2.165E-01	4.765E-03	2.450E-02	5.372E-02	1.326E+00	-2.00E+01	1.34E+02	2.05E+03	0.306
			-1.105E-01	-1.479E-01	1.233E-02	1.118E-02	5.125E-03	-4.881E-01	-4.42E+00	1.28E+01	-7.54E+02	0.107
		127	-1.105E-01	-8.480E-02	1.233E-02	1.118E-02	5.765E-02	5.806E-02	-4.42E+00	1.44E+02	8.97E+01	0.033
53	4	107	1.105E-01	2.109E-01	-1.233E-02	-1.118E-02	-2.210E-02	1.304E+00	-4.42E+00	-5.52E+01	2.02E+03	0.288
			-5.007E-01	-1.535E-01	-4.765E-03	-2.450E-02	-2.699E-03	-5.031E-01	-2.00E+01	-6.75E+00	-7.78E+02	0.112
		127	-5.007E-01	-9.041E-02	-4.765E-03	-2.450E-02	-2.117E-02	2.288E-02	-2.00E+01	-5.29E+01	3.54E+01	0.015
54	1	109	2.402E-01	2.258E-01	1.405E-02	3.066E-02	1.209E-01	1.362E+00	-9.61E+00	3.02E+02	2.10E+03	0.336
			-3.828E-02	-1.566E-01	2.263E-02	9.138E-03	3.262E-02	-4.854E-01	-1.53E+00	8.16E+01	-7.50E+02	0.116
		129	-3.828E-02	-9.354E-02	2.263E-02	9.138E-03	9.198E-02	1.036E-01	-1.53E+00	2.30E+02	1.60E+02	0.054
54	2	109	3.828E-02	2.197E-01	-2.263E-02	-9.138E-03	-8.389E-02	1.334E+00	-1.53E+00	-2.10E+02	2.06E+03	0.316
			-2.402E-01	-1.628E-01	-1.405E-02	-3.066E-02	-3.104E-02	-4.892E-01	-9.61E+00	-7.76E+01	-7.56E+02	0.117
		129	-2.402E-01	-9.972E-02	-1.405E-02	-3.066E-02	-5.179E-02	7.522E-02	-9.61E+00	-1.29E+02	1.16E+02	0.035

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54	3	109	2.150E-01	2.391E-01	1.279E-02	3.974E-02	9.342E-02	1.409E+00	-8.60E+00	2.34E+02	2.18E+03	0.336
			-6.346E-02	-1.434E-01	2.137E-02	1.822E-02	8.155E-03	-4.754E-01	-2.54E+00	2.04E+01	-7.35E+02	0.105
		129	-6.346E-02	-8.030E-02	2.137E-02	1.822E-02	9.956E-02	1.748E-01	-2.54E+00	2.49E+02	2.70E+02	0.072
54	4	109	6.346E-02	2.064E-01	-2.137E-02	-1.822E-02	-5.640E-02	1.286E+00	-2.54E+00	-1.41E+02	1.99E+03	0.296
			-2.150E-01	-1.760E-01	-1.279E-02	-3.974E-02	-6.571E-03	-4.992E-01	-8.60E+00	-1.64E+01	-7.72E+02	0.111
		129	-2.150E-01	-1.130E-01	-1.279E-02	-3.974E-02	-5.937E-02	4.047E-03	-8.60E+00	-1.48E+02	6.25E+00	0.023
55	1	301	4.052E-02	3.228E-02	-1.126E-02	8.771E-03	8.280E-02	-1.175E-02	-3.05E+00	2.01E+02	-2.10E+01	0.031
			3.150E-01	7.815E-03	1.664E-02	3.055E-02	1.772E-02	8.299E-02	2.37E+01	4.30E+01	1.48E+02	0.030
		321	3.150E-01	4.136E-02	1.664E-02	3.055E-02	8.597E-02	6.854E-04	2.37E+01	2.09E+02	1.22E+00	0.032
55	2	301	-3.150E-01	2.573E-02	-1.664E-02	-3.055E-02	4.328E-02	-3.940E-02	2.37E+01	1.05E+02	-7.04E+01	0.028
			-4.052E-02	1.263E-03	1.126E-02	-8.771E-03	-1.824E-02	7.828E-02	-3.05E+00	-4.43E+01	1.40E+02	0.026
		321	-4.052E-02	3.481E-02	1.126E-02	-8.771E-03	3.909E-02	-3.123E-02	-3.05E+00	9.49E+01	-5.58E+01	0.021
55	3	301	5.527E-03	5.043E-02	8.713E-03	1.885E-02	1.649E-01	6.010E-02	-4.16E-01	4.01E+02	1.07E+02	0.071
			2.800E-01	2.596E-02	3.662E-02	4.063E-02	3.613E-03	9.135E-02	2.11E+01	8.77E+00	1.63E+02	0.027
		321	2.800E-01	5.951E-02	3.662E-02	4.063E-02	1.648E-01	9.182E-02	2.11E+01	4.00E+02	1.64E+02	0.081
55	4	301	-2.800E-01	7.589E-03	-3.662E-02	-4.063E-02	-3.884E-02	-1.113E-01	2.11E+01	-9.43E+01	-1.99E+02	0.044
			-5.527E-03	-1.688E-02	-8.713E-03	-1.885E-02	-4.128E-03	6.992E-02	-4.16E-01	-1.00E+01	1.25E+02	0.019
		321	-5.527E-03	1.667E-02	-8.713E-03	-1.885E-02	-3.972E-02	-1.224E-01	-4.16E-01	-9.65E+01	-2.19E+02	0.044
56	1	303	-2.549E-01	2.997E-02	-5.798E-03	5.721E-03	4.521E-02	-1.635E-02	1.92E+01	1.10E+02	-2.92E+01	0.022
			3.577E-01	1.227E-02	9.971E-03	1.904E-02	1.205E-03	7.829E-02	2.69E+01	2.93E+00	1.40E+02	0.024
		323	3.577E-01	4.581E-02	9.971E-03	1.904E-02	4.468E-02	-1.556E-02	2.69E+01	1.08E+02	-2.78E+01	0.023
56	2	303	-3.577E-01	2.128E-02	-9.971E-03	-1.904E-02	2.580E-02	-5.564E-02	2.69E+01	6.26E+01	-9.94E+01	0.026
			2.549E-01	3.580E-03	5.798E-03	-5.721E-03	-1.257E-03	7.336E-02	1.92E+01	-3.05E+00	1.31E+02	0.021
		323	2.549E-01	3.713E-02	5.798E-03	-5.721E-03	2.623E-02	-5.507E-02	1.92E+01	6.37E+01	-9.83E+01	0.025
56	3	303	-6.846E-02	3.032E-02	2.609E-03	1.138E-02	8.262E-02	-1.864E-02	5.15E+00	2.01E+02	-3.33E+01	0.033
			5.442E-01	1.262E-02	1.838E-02	2.470E-02	2.773E-04	8.124E-02	4.09E+01	6.73E-01	1.45E+02	0.026
		323	5.442E-01	4.617E-02	1.838E-02	2.470E-02	8.278E-02	-9.789E-03	4.09E+01	2.01E+02	-1.75E+01	0.036
56	4	303	-5.442E-01	2.092E-02	-1.838E-02	-2.470E-02	-1.161E-02	-5.336E-02	4.09E+01	-2.82E+01	-9.53E+01	0.023
			6.846E-02	3.225E-03	-2.609E-03	-1.138E-02	-3.289E-04	7.041E-02	5.15E+00	-7.99E-01	1.26E+02	0.018
		323	6.846E-02	3.677E-02	-2.609E-03	-1.138E-02	-1.187E-02	-6.084E-02	5.15E+00	-2.88E+01	-1.09E+02	0.020
57	1	305	-3.228E-01	3.026E-02	1.776E-03	2.679E-03	8.044E-03	-1.641E-02	2.43E+01	1.95E+01	-2.93E+01	0.010
			4.138E-01	1.356E-02	1.776E-03	2.679E-03	2.143E-04	7.949E-02	3.11E+01	5.20E-01	1.42E+02	0.024
		325	4.138E-01	4.711E-02	1.776E-03	2.679E-03	7.945E-03	-1.288E-02	3.11E+01	1.93E+01	-2.30E+01	0.010
57	2	305	-4.138E-01	1.998E-02	-1.776E-03	-2.679E-03	-8.044E-03	-6.201E-02	3.11E+01	-1.95E+01	-1.11E+02	0.022
			3.228E-01	3.289E-03	-1.776E-03	-2.679E-03	-2.143E-04	7.406E-02	2.43E+01	-5.20E-01	1.32E+02	0.022
		325	3.228E-01	3.684E-02	-1.776E-03	-2.679E-03	-7.945E-03	-6.036E-02	2.43E+01	-1.93E+01	-1.08E+02	0.021
57	3	305	-9.960E-02	3.064E-02	3.065E-04	5.346E-04	1.397E-03	-1.802E-02	7.49E+00	3.39E+00	-3.22E+01	0.006
			6.371E-01	1.395E-02	3.065E-04	5.346E-04	4.828E-05	8.241E-02	4.79E+01	1.17E-01	1.47E+02	0.027
		325	6.371E-01	4.750E-02	3.065E-04	5.346E-04	1.363E-03	-7.475E-03	4.79E+01	3.31E+00	-1.33E+01	0.009
57	4	305	-6.371E-01	1.960E-02	-3.065E-04	-5.346E-04	-1.397E-03	-6.040E-02	4.79E+01	-3.39E+00	-1.08E+02	0.022
			9.960E-02	2.904E-03	-3.065E-04	-5.346E-04	-4.828E-05	7.114E-02	7.49E+00	-1.17E-01	1.27E+02	0.019
		325	9.960E-02	3.645E-02	-3.065E-04	-5.346E-04	-1.363E-03	-6.577E-02	7.49E+00	-3.31E+00	-1.17E+02	0.018
58	1	307	-2.618E-01	2.984E-02	1.001E-02	1.913E-02	-2.554E-02	-1.763E-02	1.97E+01	-6.20E+01	-3.15E+01	0.016

			3.509E-01	1.214E-02	-5.758E-03	5.807E-03	1.079E-03	7.806E-02	2.64E+01	2.62E+00	1.39E+02	0.023
		327	3.509E-01	4.569E-02	-5.758E-03	5.807E-03	-2.618E-02	-1.546E-02	2.64E+01	-6.36E+01	-2.76E+01	0.016
58	2	307	-3.509E-01	2.140E-02	5.758E-03	-5.807E-03	-4.547E-02	-5.437E-02	2.64E+01	-1.10E+02	-9.71E+01	0.032
			2.618E-01	3.702E-03	-1.001E-02	-1.913E-02	-1.028E-03	7.359E-02	1.97E+01	-2.50E+00	1.31E+02	0.021
		327	2.618E-01	3.725E-02	-1.001E-02	-1.913E-02	-4.473E-02	-5.516E-02	1.97E+01	-1.09E+02	-9.85E+01	0.032
58	3	307	-6.765E-02	3.046E-02	1.830E-02	2.460E-02	1.110E-02	-1.780E-02	5.09E+00	2.70E+01	-3.18E+01	0.009
			5.450E-01	1.276E-02	2.527E-03	1.128E-02	3.726E-04	8.124E-02	4.10E+01	9.05E-01	1.45E+02	0.026
		327	5.450E-01	4.631E-02	2.527E-03	1.128E-02	1.164E-02	-9.307E-03	4.10E+01	2.83E+01	-1.66E+01	0.012
58	4	307	-5.450E-01	2.078E-02	-2.527E-03	-1.128E-02	-8.211E-02	-5.420E-02	4.10E+01	-1.99E+02	-9.68E+01	0.047
			6.765E-02	3.083E-03	-1.830E-02	-2.460E-02	-3.210E-04	7.040E-02	5.09E+00	-7.80E-01	1.26E+02	0.018
		327	6.765E-02	3.663E-02	-1.830E-02	-2.460E-02	-8.255E-02	-6.132E-02	5.09E+00	-2.00E+02	-1.09E+02	0.044
59	1	309	3.127E-03	3.345E-02	1.624E-02	3.076E-02	-4.284E-02	-6.414E-03	-2.35E-01	-1.04E+02	-1.15E+01	0.016
			2.776E-01	8.976E-03	-1.166E-02	8.980E-03	1.537E-02	8.408E-02	2.09E+01	3.73E+01	1.50E+02	0.029
		329	2.776E-01	4.252E-02	-1.166E-02	8.980E-03	-4.636E-02	6.034E-03	2.09E+01	-1.13E+02	1.08E+01	0.020
59	2	309	-2.776E-01	2.457E-02	1.166E-02	-8.980E-03	-8.324E-02	-4.474E-02	2.09E+01	-2.02E+02	-7.99E+01	0.042
			-3.127E-03	1.016E-04	-1.624E-02	-3.076E-02	-1.486E-02	7.719E-02	-2.35E-01	-3.61E+01	1.38E+02	0.024
		329	-3.127E-03	3.365E-02	-1.624E-02	-3.076E-02	-7.870E-02	-3.658E-02	-2.35E-01	-1.91E+02	-6.53E+01	0.036
59	3	309	1.277E-02	5.035E-02	3.654E-02	4.084E-02	3.674E-02	5.968E-02	-9.60E-01	8.92E+01	1.07E+02	0.027
			2.873E-01	2.588E-02	8.637E-03	1.906E-02	4.144E-03	9.147E-02	2.16E+01	1.01E+01	1.63E+02	0.027
		329	2.873E-01	5.943E-02	8.637E-03	1.906E-02	4.111E-02	9.153E-02	2.16E+01	9.98E+01	1.63E+02	0.040
59	4	309	-2.873E-01	7.669E-03	-8.637E-03	-1.906E-02	-1.628E-01	-1.108E-01	2.16E+01	-3.95E+02	-1.98E+02	0.085
			-1.277E-02	-1.680E-02	-3.654E-02	-4.084E-02	-3.629E-03	6.980E-02	-9.60E-01	-8.81E+00	1.25E+02	0.019
		329	-1.277E-02	1.675E-02	-3.654E-02	-4.084E-02	-1.662E-01	-1.221E-01	-9.60E-01	-4.04E+02	-2.18E+02	0.086
60	1	300	2.368E+00	4.759E-01	9.252E-02	4.298E-02	1.141E+00	2.980E+00	-5.80E+01	4.63E+02	3.72E+02	0.124
			2.242E+00	2.166E-01	1.767E-01	4.751E-03	4.616E-01	8.616E-01	5.50E+01	1.88E+02	1.08E+02	0.049
		301	2.242E+00	3.309E-01	1.767E-01	4.751E-03	6.298E-01	6.501E-01	5.50E+01	2.56E+02	8.13E+01	0.054
60	2	300	-2.242E+00	-1.022E-01	-1.767E-01	-4.751E-03	-9.228E-01	-1.654E+00	5.50E+01	-3.75E+02	-2.07E+02	0.088
			-2.368E+00	-3.616E-01	-9.252E-02	-4.298E-02	-2.584E-01	-8.903E-01	-5.80E+01	-1.05E+02	-1.11E+02	0.038
		301	-2.368E+00	-2.473E-01	-9.252E-02	-4.298E-02	-5.499E-03	-5.253E-01	-5.80E+01	-2.23E+00	-6.57E+01	0.017
60	3	300	1.337E+01	2.288E-01	2.344E-02	1.034E-01	5.469E-01	1.038E+00	-3.28E+02	2.22E+02	1.30E+02	0.094
			1.324E+01	-3.063E-02	1.077E-01	6.516E-02	2.191E-01	1.769E-01	3.25E+02	8.90E+01	2.21E+01	0.061
		301	1.324E+01	8.372E-02	1.077E-01	6.516E-02	5.371E-01	2.047E-01	3.25E+02	2.18E+02	2.56E+01	0.079
60	4	300	-1.324E+01	1.450E-01	-1.077E-01	-6.516E-02	-3.290E-01	2.877E-01	3.25E+02	-1.34E+02	3.60E+01	0.069
			-1.337E+01	-1.144E-01	-2.344E-02	-1.034E-01	-1.586E-02	-2.056E-01	-3.28E+02	-6.45E+00	-2.57E+01	0.050
		301	-1.337E+01	-6.248E-05	-2.344E-02	-1.034E-01	8.714E-02	-7.990E-02	-3.28E+02	3.54E+01	-9.99E+00	0.052
61	1	301	7.825E+01	2.656E-01	1.349E-01	2.657E-02	-8.723E-02	5.291E-01	-1.92E+03	-3.54E+01	6.61E+01	0.280
			-5.745E+01	-3.662E-02	-5.540E-02	7.792E-03	-1.281E-02	1.113E+00	-1.41E+03	-5.20E+00	1.39E+02	0.216
		302	-5.745E+01	7.773E-02	-5.540E-02	7.792E-03	-4.605E-01	1.110E+00	-1.41E+03	-1.87E+02	1.39E+02	0.241
61	2	301	5.745E+01	1.510E-01	5.540E-02	-7.792E-03	-6.575E-01	-6.321E-01	-1.41E+03	-2.67E+02	-7.90E+01	0.244
			-7.825E+01	-1.512E-01	-1.349E-01	-2.657E-02	-1.938E-01	5.011E-01	-1.92E+03	-7.87E+01	6.26E+01	0.286
		302	-7.825E+01	-3.689E-02	-1.349E-01	-2.657E-02	-6.974E-01	8.711E-01	-1.92E+03	-2.83E+02	1.09E+02	0.321
61	3	301	8.287E+01	2.662E-01	1.130E-01	3.345E-02	-2.977E-01	9.142E-02	-2.03E+03	-1.21E+02	1.14E+01	0.301
			-5.283E+01	-3.603E-02	-7.726E-02	1.467E-02	1.022E-02	1.006E+00	-1.29E+03	4.15E+00	1.26E+02	0.198

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		302	-5.283E+01	7.832E-02	-7.726E-02	1.467E-02	-3.888E-01	1.466E+00	-1.29E+03	-1.58E+02	1.83E+02	0.227
61	4	301	5.283E+01	1.504E-01	7.726E-02	-1.467E-02	-4.470E-01	-1.944E-01	-1.29E+03	-1.82E+02	-2.43E+01	0.208
			-8.287E+01	-1.518E-01	-1.130E-01	-3.345E-02	-2.168E-01	6.083E-01	-2.03E+03	-8.81E+01	7.60E+01	0.305
		302	-8.287E+01	-3.748E-02	-1.130E-01	-3.345E-02	-7.692E-01	5.153E-01	-2.03E+03	-3.12E+02	6.44E+01	0.334
62	1	302	8.037E+01	7.724E-02	-1.116E-01	2.530E-02	7.228E-01	-8.642E-01	-1.97E+03	2.94E+02	-1.08E+02	0.329
			-5.514E+01	1.084E-01	1.630E-01	8.472E-03	1.288E-01	1.081E+00	-1.35E+03	5.23E+01	1.35E+02	0.214
		303	-5.514E+01	2.227E-01	1.630E-01	8.472E-03	9.155E-01	5.895E-01	-1.35E+03	3.72E+02	7.37E+01	0.250
62	2	302	5.514E+01	5.964E-03	-1.630E-01	-8.472E-03	4.592E-01	-1.100E+00	-1.35E+03	1.87E+02	-1.37E+02	0.233
			-8.037E+01	3.711E-02	1.116E-01	-2.530E-02	6.193E-02	7.275E-01	-1.97E+03	2.52E+01	9.09E+01	0.290
		303	-8.037E+01	1.515E-01	1.116E-01	-2.530E-02	6.479E-01	-8.018E-02	-1.97E+03	2.63E+02	-1.00E+01	0.312
62	3	302	1.025E+02	1.386E-01	-1.279E-01	3.200E-02	7.599E-01	-5.164E-01	-2.51E+03	3.09E+02	-6.46E+01	0.401
			-3.305E+01	1.697E-01	1.466E-01	1.517E-02	2.400E-01	1.054E+00	-8.10E+02	9.75E+01	1.32E+02	0.144
		303	-3.305E+01	2.841E-01	1.466E-01	1.517E-02	9.147E-01	8.007E-01	-8.10E+02	3.72E+02	1.00E+02	0.178
62	4	302	3.305E+01	-5.536E-02	-1.466E-01	-1.517E-02	4.221E-01	-1.448E+00	-8.10E+02	1.71E+02	-1.81E+02	0.161
			-1.025E+02	-2.422E-02	1.279E-01	-3.200E-02	-4.928E-02	7.544E-01	-2.51E+03	-2.00E+01	9.43E+01	0.365
		303	-1.025E+02	9.013E-02	1.279E-01	-3.200E-02	6.487E-01	-2.913E-01	-2.51E+03	2.64E+02	-3.64E+01	0.390
63	1	303	1.185E+02	3.089E-01	1.906E-01	8.857E-03	-6.882E-01	7.509E-02	-2.90E+03	-2.80E+02	9.39E+00	0.444
			-8.465E+01	-1.035E-01	-1.475E-01	5.491E-03	-1.332E-02	1.534E+00	-2.07E+03	-5.41E+00	1.92E+02	0.316
		304	-8.465E+01	1.085E-02	-1.475E-01	5.491E-03	-7.827E-01	2.097E+00	-2.07E+03	-3.18E+02	2.62E+02	0.369
63	2	303	8.465E+01	2.178E-01	1.475E-01	-5.491E-03	-9.279E-01	-5.711E-01	-2.07E+03	-3.77E+02	-7.14E+01	0.350
			-1.185E+02	-1.946E-01	-1.906E-01	-8.857E-03	-6.106E-02	1.024E+00	-2.90E+03	-2.48E+01	1.28E+02	0.425
		304	-1.185E+02	-8.021E-02	-1.906E-01	-8.857E-03	-9.821E-01	1.379E+00	-2.90E+03	-3.99E+02	1.72E+02	0.483
63	3	303	1.374E+02	3.922E-01	1.944E-01	1.125E-02	-7.468E-01	3.016E-01	-3.37E+03	-3.03E+02	3.77E+01	0.515
			-6.580E+01	-2.023E-02	-1.437E-01	7.880E-03	1.237E-01	1.511E+00	-1.61E+03	5.02E+01	1.89E+02	0.257
		304	-6.580E+01	9.412E-02	-1.437E-01	7.880E-03	-5.994E-01	2.535E+00	-1.61E+03	-2.44E+02	3.17E+02	0.302
63	4	303	6.580E+01	1.346E-01	1.437E-01	-7.880E-03	-8.693E-01	-7.975E-01	-1.61E+03	-3.53E+02	-9.97E+01	0.287
			-1.374E+02	-2.778E-01	-1.944E-01	-1.125E-02	-1.981E-01	1.047E+00	-3.37E+03	-8.05E+01	1.31E+02	0.497
		304	-1.374E+02	-1.635E-01	-1.944E-01	-1.125E-02	-1.165E+00	9.414E-01	-3.37E+03	-4.73E+02	1.18E+02	0.550
64	1	304	1.201E+02	3.617E-02	-1.606E-01	1.146E-02	9.924E-01	-1.376E+00	-2.94E+03	4.03E+02	-1.72E+02	0.489
			-8.298E+01	2.043E-01	2.078E-01	1.738E-03	6.277E-02	1.572E+00	-2.03E+03	2.55E+01	1.96E+02	0.313
		305	-8.298E+01	3.186E-01	2.078E-01	1.738E-03	1.090E+00	7.723E-01	-2.03E+03	4.43E+02	9.65E+01	0.357
64	2	304	8.298E+01	-8.992E-02	-2.078E-01	-1.738E-03	7.811E-01	-2.094E+00	-2.03E+03	3.17E+02	-2.62E+02	0.363
			-1.201E+02	7.817E-02	1.606E-01	-1.146E-02	5.323E-03	1.058E+00	-2.94E+03	2.16E+00	1.32E+02	0.428
		305	-1.201E+02	1.925E-01	1.606E-01	-1.146E-02	8.196E-01	-1.264E-01	-2.94E+03	3.33E+02	-1.58E+01	0.457
64	3	304	1.444E+02	1.146E-01	-1.640E-01	1.310E-02	1.162E+00	-9.427E-01	-3.54E+03	4.72E+02	-1.18E+02	0.573
			-5.870E+01	2.826E-01	2.043E-01	3.382E-03	2.189E-01	1.544E+00	-1.44E+03	8.89E+01	1.93E+02	0.239
		305	-5.870E+01	3.970E-01	2.043E-01	3.382E-03	1.069E+00	1.014E+00	-1.44E+03	4.34E+02	1.27E+02	0.278
64	4	304	5.870E+01	-1.683E-01	-2.043E-01	-3.382E-03	6.120E-01	-2.528E+00	-1.44E+03	2.49E+02	-3.16E+02	0.278
			-1.444E+02	-2.107E-04	1.640E-01	-1.310E-02	-1.508E-01	1.086E+00	-3.54E+03	-6.13E+01	1.36E+02	0.519
		305	-1.444E+02	1.141E-01	1.640E-01	-1.310E-02	8.404E-01	-3.677E-01	-3.54E+03	3.41E+02	-4.60E+01	0.545
65	1	305	1.182E+02	3.212E-01	2.068E-01	2.000E-03	-8.189E-01	1.251E-01	-2.90E+03	-3.33E+02	1.56E+01	0.451
			-8.488E+01	-7.556E-02	-1.616E-01	1.172E-02	6.500E-02	1.571E+00	-2.08E+03	2.64E+01	1.96E+02	0.320
		306	-8.488E+01	3.878E-02	-1.616E-01	1.172E-02	-7.922E-01	2.117E+00	-2.08E+03	-3.22E+02	2.65E+02	0.370

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65	2	305	8.488E+01	1.899E-01	1.616E-01	-1.172E-02	-1.091E+00	-7.711E-01	-2.08E+03	-4.43E+02	-9.64E+01	0.364
			-1.182E+02	-2.069E-01	-2.068E-01	-2.000E-03	3.096E-03	1.059E+00	-2.90E+03	1.26E+00	1.32E+02	0.421
		306	-1.182E+02	-9.253E-02	-2.068E-01	-2.000E-03	-9.813E-01	1.353E+00	-2.90E+03	-3.99E+02	1.69E+02	0.481
65	3	305	1.443E+02	3.975E-01	2.045E-01	3.115E-03	-8.404E-01	3.674E-01	-3.54E+03	-3.41E+02	4.59E+01	0.545
			-5.877E+01	7.578E-04	-1.639E-01	1.283E-02	2.193E-01	1.541E+00	-1.44E+03	8.91E+01	1.93E+02	0.239
		306	-5.877E+01	1.151E-01	-1.639E-01	1.283E-02	-6.108E-01	2.531E+00	-1.44E+03	-2.48E+02	3.16E+02	0.278
65	4	305	5.877E+01	1.136E-01	1.639E-01	-1.283E-02	-1.069E+00	-1.013E+00	-1.44E+03	-4.34E+02	-1.27E+02	0.278
			-1.443E+02	-2.832E-01	-2.045E-01	-3.115E-03	-1.512E-01	1.089E+00	-3.54E+03	-6.14E+01	1.36E+02	0.519
		306	-1.443E+02	-1.688E-01	-2.045E-01	-3.115E-03	-1.163E+00	9.395E-01	-3.54E+03	-4.72E+02	1.17E+02	0.573
66	1	306	1.188E+02	4.571E-02	-1.502E-01	5.729E-03	9.774E-01	-1.352E+00	-2.91E+03	3.97E+02	-1.69E+02	0.483
			-8.434E+01	2.294E-01	1.878E-01	9.095E-03	-1.797E-02	1.511E+00	-2.07E+03	-7.30E+00	1.89E+02	0.314
		307	-8.434E+01	3.438E-01	1.878E-01	9.095E-03	9.049E-01	7.785E-01	-2.07E+03	3.68E+02	9.73E+01	0.352
66	2	306	8.434E+01	-1.151E-01	-1.878E-01	-9.095E-03	7.874E-01	-2.124E+00	-2.07E+03	3.20E+02	-2.66E+02	0.368
			-1.188E+02	6.863E-02	1.502E-01	-5.729E-03	-5.641E-02	1.047E+00	-2.91E+03	-2.29E+01	1.31E+02	0.426
		307	-1.188E+02	1.830E-01	1.502E-01	-5.729E-03	7.112E-01	-2.825E-01	-2.91E+03	2.89E+02	-3.53E+01	0.449
66	3	306	1.374E+02	9.797E-02	-1.435E-01	7.628E-03	1.165E+00	-9.379E-01	-3.37E+03	4.73E+02	-1.17E+02	0.550
			-6.577E+01	2.817E-01	1.946E-01	1.099E-02	1.230E-01	1.520E+00	-1.61E+03	5.00E+01	1.90E+02	0.257
		307	-6.577E+01	3.960E-01	1.946E-01	1.099E-02	8.695E-01	8.439E-01	-1.61E+03	3.53E+02	1.05E+02	0.288
66	4	306	6.577E+01	-1.673E-01	-1.946E-01	-1.099E-02	5.993E-01	-2.539E+00	-1.61E+03	2.43E+02	-3.17E+02	0.302
			-1.374E+02	1.637E-02	1.435E-01	-7.628E-03	-1.974E-01	1.038E+00	-3.37E+03	-8.02E+01	1.30E+02	0.497
		307	-1.374E+02	1.307E-01	1.435E-01	-7.628E-03	7.465E-01	-3.479E-01	-3.37E+03	3.03E+02	-4.35E+01	0.516
67	1	307	7.793E+01	2.695E-01	1.550E-01	8.400E-03	-6.706E-01	2.818E-01	-1.91E+03	-2.72E+02	3.52E+01	0.308
			-5.758E+01	9.649E-03	-1.195E-01	2.523E-02	1.356E-01	1.086E+00	-1.41E+03	5.51E+01	1.36E+02	0.223
		308	-5.758E+01	1.240E-01	-1.195E-01	2.523E-02	-5.097E-01	1.325E+00	-1.41E+03	-2.07E+02	1.66E+02	0.248
67	2	307	5.758E+01	1.047E-01	1.195E-01	-2.523E-02	-8.929E-01	-7.911E-01	-1.41E+03	-3.63E+02	-9.89E+01	0.260
			-7.793E+01	-1.551E-01	-1.550E-01	-8.400E-03	5.510E-02	7.226E-01	-1.91E+03	2.24E+01	9.03E+01	0.281
		308	-7.793E+01	-4.079E-02	-1.550E-01	-8.400E-03	-6.723E-01	6.392E-01	-1.91E+03	-2.73E+02	7.99E+01	0.314
67	3	307	1.024E+02	2.912E-01	1.484E-01	1.522E-02	-6.484E-01	3.383E-01	-2.51E+03	-2.63E+02	4.23E+01	0.391
			-3.315E+01	3.133E-02	-1.261E-01	3.205E-02	2.414E-01	1.057E+00	-8.13E+02	9.81E+01	1.32E+02	0.145
		308	-3.315E+01	1.457E-01	-1.261E-01	3.205E-02	-4.147E-01	1.469E+00	-8.13E+02	-1.68E+02	1.84E+02	0.162
67	4	307	3.315E+01	8.302E-02	1.261E-01	-3.205E-02	-9.150E-01	-8.477E-01	-8.13E+02	-3.72E+02	-1.06E+02	0.179
			-1.024E+02	-1.768E-01	-1.484E-01	-1.522E-02	-5.065E-02	7.513E-01	-2.51E+03	-2.06E+01	9.39E+01	0.364
		308	-1.024E+02	-6.247E-02	-1.484E-01	-1.522E-02	-7.673E-01	4.956E-01	-2.51E+03	-3.12E+02	6.19E+01	0.400
68	1	308	7.777E+01	1.424E-01	-6.913E-02	7.833E-03	6.509E-01	-6.458E-01	-1.91E+03	2.64E+02	-8.07E+01	0.313
			-5.793E+01	2.159E-01	1.211E-01	2.661E-02	-2.239E-02	1.102E+00	-1.42E+03	-9.10E+00	1.38E+02	0.218
		309	-5.793E+01	3.303E-01	1.211E-01	2.661E-02	5.767E-01	9.456E-01	-1.42E+03	2.34E+02	1.18E+02	0.246
68	2	308	5.793E+01	-1.016E-01	-1.211E-01	-2.661E-02	5.070E-01	-1.336E+00	-1.42E+03	2.06E+02	-1.67E+02	0.249
			-7.777E+01	-2.806E-02	6.913E-02	-7.833E-03	-1.842E-01	5.117E-01	-1.91E+03	-7.48E+01	6.40E+01	0.284
		309	-7.777E+01	8.629E-02	6.913E-02	-7.833E-03	1.681E-01	-8.426E-01	-1.91E+03	6.83E+01	-1.05E+02	0.289
68	3	308	8.285E+01	9.364E-02	-7.579E-02	1.467E-02	7.737E-01	-4.956E-01	-2.03E+03	3.14E+02	-6.20E+01	0.334
			-5.285E+01	1.671E-01	1.145E-01	3.345E-02	1.983E-03	1.008E+00	-1.30E+03	8.05E-01	1.26E+02	0.198
		309	-5.285E+01	2.815E-01	1.145E-01	3.345E-02	4.267E-01	3.740E-01	-1.30E+03	1.73E+02	4.68E+01	0.210

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68	4	308	5.285E+01	-5.280E-02	-1.145E-01	-3.345E-02	3.842E-01	-1.486E+00	-1.30E+03	1.56E+02	-1.86E+02	0.227
			-8.285E+01	2.071E-02	7.579E-02	-1.467E-02	-2.086E-01	6.056E-01	-2.03E+03	-8.47E+01	7.57E+01	0.304
		309	-8.285E+01	1.351E-01	7.579E-02	-1.467E-02	3.181E-01	-2.710E-01	-2.03E+03	1.29E+02	-3.39E+01	0.305
69	1	309	1.743E+00	2.784E-01	1.522E-01	6.340E-03	-6.595E-02	8.378E-01	-4.27E+01	-2.68E+01	1.05E+02	0.024
			1.617E+00	3.091E-01	6.798E-02	4.457E-02	4.114E-01	3.502E-01	3.96E+01	1.67E+02	4.38E+01	0.035
		310	1.617E+00	4.235E-01	6.798E-02	4.457E-02	7.497E-01	8.386E-01	3.96E+01	3.05E+02	1.05E+02	0.062
69	2	309	-1.617E+00	-1.948E-01	-6.798E-02	-4.457E-02	-5.583E-01	-9.625E-01	3.96E+01	-2.27E+02	-1.20E+02	0.054
			-1.743E+00	-1.641E-01	-1.522E-01	-6.340E-03	-2.082E-01	-3.788E-01	-4.27E+01	-8.46E+01	-4.74E+01	0.024
		310	-1.743E+00	-4.973E-02	-1.522E-01	-6.340E-03	-9.676E-01	-2.164E+00	-4.27E+01	-3.93E+02	-2.71E+02	0.098
69	3	309	1.320E+01	1.058E-01	1.002E-01	6.515E-02	-9.794E-02	2.663E-01	-3.24E+02	-3.98E+01	3.33E+01	0.055
			1.308E+01	1.365E-01	1.600E-02	1.034E-01	1.850E-01	4.861E-02	3.21E+02	7.51E+01	6.08E+00	0.056
		310	1.308E+01	2.509E-01	1.600E-02	1.034E-01	2.610E-01	-3.390E-01	3.21E+02	1.06E+02	-4.24E+01	0.065
69	4	309	-1.308E+01	-2.219E-02	-1.600E-02	-1.034E-01	-5.263E-01	-3.911E-01	3.21E+02	-2.14E+02	-4.89E+01	0.081
			-1.320E+01	8.499E-03	-1.002E-01	-6.515E-02	1.822E-02	-7.727E-02	-3.24E+02	7.40E+00	-9.66E+00	0.047
		310	-1.320E+01	1.228E-01	-1.002E-01	-6.515E-02	-4.789E-01	-9.865E-01	-3.24E+02	-1.95E+02	-1.23E+02	0.089
70	1	320	1.940E+00	4.480E-01	8.114E-02	2.509E-02	1.104E+00	2.846E+00	-4.76E+01	4.48E+02	3.56E+02	0.118
			1.748E+00	2.273E-01	1.671E-01	2.221E-02	4.724E-01	8.767E-01	4.28E+01	1.92E+02	1.10E+02	0.048
		321	1.748E+00	3.416E-01	1.671E-01	2.221E-02	5.721E-01	5.004E-01	4.28E+01	2.32E+02	6.25E+01	0.047
70	2	320	-1.748E+00	-1.129E-01	-1.671E-01	-2.221E-02	-8.766E-01	-1.724E+00	4.28E+01	-3.56E+02	-2.16E+02	0.085
			-1.940E+00	-3.336E-01	-8.114E-02	-2.509E-02	-2.696E-01	-8.949E-01	-4.76E+01	-1.10E+02	-1.12E+02	0.037
		321	-1.940E+00	-2.193E-01	-8.114E-02	-2.509E-02	6.072E-02	-5.586E-01	-4.76E+01	2.47E+01	-6.98E+01	0.020
70	3	320	4.585E-01	2.223E-01	1.716E-02	8.254E-02	5.032E-01	9.409E-01	-1.12E+01	2.04E+02	1.18E+02	0.046
			2.659E-01	1.633E-03	1.032E-01	7.966E-02	1.964E-01	1.251E-01	6.52E+00	7.98E+01	1.56E+01	0.014
		321	2.659E-01	1.160E-01	1.032E-01	7.966E-02	5.335E-01	1.757E-01	6.52E+00	2.17E+02	2.20E+01	0.034
70	4	320	-2.659E-01	1.127E-01	-1.032E-01	-7.966E-02	-2.761E-01	1.810E-01	6.52E+00	-1.12E+02	2.26E+01	0.020
			-4.585E-01	-1.080E-01	-1.716E-02	-8.254E-02	6.493E-03	-1.434E-01	-1.12E+01	2.64E+00	-1.79E+01	0.004
		321	-4.585E-01	6.342E-03	-1.716E-02	-8.254E-02	9.935E-02	-2.339E-01	-1.12E+01	4.04E+01	-2.92E+01	0.011
71	1	321	6.474E+01	2.641E-01	1.227E-01	2.535E-02	-1.582E-01	5.488E-01	-1.59E+03	-6.43E+01	6.86E+01	0.239
			-5.330E+01	-3.319E-02	-7.053E-02	8.734E-03	-1.410E-03	9.619E-01	-1.31E+03	-5.73E-01	1.20E+02	0.198
		322	-5.330E+01	8.115E-02	-7.053E-02	8.734E-03	-5.231E-01	1.026E+00	-1.31E+03	-2.13E+02	1.28E+02	0.229
71	2	321	5.330E+01	1.475E-01	7.053E-02	-8.734E-03	-6.058E-01	-4.939E-01	-1.31E+03	-2.46E+02	-6.17E+01	0.224
			-6.474E+01	-1.497E-01	-1.227E-01	-2.535E-02	-2.006E-01	4.695E-01	-1.59E+03	-8.15E+01	5.87E+01	0.240
		322	-6.474E+01	-3.538E-02	-1.227E-01	-2.535E-02	-6.448E-01	7.487E-01	-1.59E+03	-2.62E+02	9.36E+01	0.270
71	3	321	8.646E+01	2.715E-01	1.167E-01	3.256E-02	-3.282E-01	2.188E-01	-2.12E+03	-1.33E+02	2.74E+01	0.317
			-3.158E+01	-2.576E-02	-7.648E-02	1.595E-02	1.573E-02	9.362E-01	-7.74E+02	6.39E+00	1.17E+02	0.125
		322	-3.158E+01	8.858E-02	-7.648E-02	1.595E-02	-3.728E-01	1.413E+00	-7.74E+02	-1.51E+02	1.77E+02	0.153
71	4	321	3.158E+01	1.401E-01	7.648E-02	-1.595E-02	-4.358E-01	-1.639E-01	-7.74E+02	-1.77E+02	-2.05E+01	0.135
			-8.646E+01	-1.572E-01	-1.167E-01	-3.256E-02	-2.177E-01	4.952E-01	-2.12E+03	-8.84E+01	6.19E+01	0.315
		322	-8.646E+01	-4.281E-02	-1.167E-01	-3.256E-02	-7.951E-01	3.614E-01	-2.12E+03	-3.23E+02	4.52E+01	0.345
72	1	322	6.597E+01	7.649E-02	-1.217E-01	2.535E-02	6.644E-01	-7.482E-01	-1.62E+03	2.70E+02	-9.35E+01	0.275
			-5.207E+01	1.159E-01	1.552E-01	8.734E-03	1.377E-01	9.166E-01	-1.28E+03	5.59E+01	1.15E+02	0.201
		323	-5.207E+01	2.302E-01	1.552E-01	8.734E-03	9.020E-01	4.147E-01	-1.28E+03	3.66E+02	5.18E+01	0.235
72	2	322	5.207E+01	-1.540E-03	-1.552E-01	-8.734E-03	5.302E-01	-1.044E+00	-1.28E+03	2.15E+02	-1.30E+02	0.225

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			-6.597E+01	3.785E-02	1.217E-01	-2.535E-02	5.222E-02	6.786E-01	-1.62E+03	2.12E+01	8.48E+01	0.239
		323	-6.597E+01	1.522E-01	1.217E-01	-2.535E-02	6.724E-01	-1.600E-01	-1.62E+03	2.73E+02	-2.00E+01	0.265
72	3	322	8.645E+01	1.387E-01	-1.251E-01	3.256E-02	7.901E-01	-3.823E-01	-2.12E+03	3.21E+02	-4.78E+01	0.346
			-3.159E+01	1.781E-01	1.518E-01	1.595E-02	2.371E-01	9.109E-01	-7.74E+02	9.63E+01	1.14E+02	0.137
		323	-3.159E+01	2.924E-01	1.518E-01	1.595E-02	8.972E-01	6.506E-01	-7.74E+02	3.65E+02	8.13E+01	0.169
72	4	322	3.159E+01	-6.372E-02	-1.518E-01	-1.595E-02	4.044E-01	-1.410E+00	-7.74E+02	1.64E+02	-1.76E+02	0.155
			-8.645E+01	-2.432E-02	1.251E-01	-3.256E-02	-4.721E-02	6.843E-01	-2.12E+03	-1.92E+01	8.55E+01	0.309
		323	-8.645E+01	9.002E-02	1.251E-01	-3.256E-02	6.771E-01	-3.958E-01	-2.12E+03	2.75E+02	-4.95E+01	0.339
73	1	323	9.727E+01	3.058E-01	1.898E-01	1.024E-02	-7.121E-01	1.463E-01	-2.38E+03	-2.89E+02	1.83E+01	0.374
			-7.956E+01	-9.162E-02	-1.506E-01	3.462E-03	-1.706E-02	1.241E+00	-1.95E+03	-6.93E+00	1.55E+02	0.293
		324	-7.956E+01	2.272E-02	-1.506E-01	3.462E-03	-7.900E-01	1.819E+00	-1.95E+03	-3.21E+02	2.27E+02	0.347
73	2	323	7.956E+01	2.060E-01	1.506E-01	-3.462E-03	-9.158E-01	-4.101E-01	-1.95E+03	-3.72E+02	-5.13E+01	0.330
			-9.727E+01	-1.914E-01	-1.898E-01	-1.024E-02	-5.707E-02	1.010E+00	-2.38E+03	-2.32E+01	1.26E+02	0.352
		324	-9.727E+01	-7.709E-02	-1.898E-01	-1.024E-02	-9.862E-01	1.275E+00	-2.38E+03	-4.01E+02	1.59E+02	0.409
73	3	323	1.311E+02	3.909E-01	2.009E-01	1.225E-02	-7.663E-01	3.957E-01	-3.21E+03	-3.11E+02	4.95E+01	0.496
			-4.573E+01	-6.525E-03	-1.395E-01	5.473E-03	1.250E-01	1.355E+00	-1.12E+03	5.08E+01	1.69E+02	0.186
		324	-4.573E+01	1.078E-01	-1.395E-01	5.473E-03	-5.762E-01	2.407E+00	-1.12E+03	-2.34E+02	3.01E+02	0.230
73	4	323	4.573E+01	1.209E-01	1.395E-01	-5.473E-03	-8.616E-01	-6.595E-01	-1.12E+03	-3.50E+02	-8.24E+01	0.216
			-1.311E+02	-2.765E-01	-2.009E-01	-1.225E-02	-1.991E-01	8.958E-01	-3.21E+03	-8.09E+01	1.12E+02	0.473
		324	-1.311E+02	-1.622E-01	-2.009E-01	-1.225E-02	-1.200E+00	6.879E-01	-3.21E+03	-4.87E+02	8.60E+01	0.526
74	1	324	9.821E+01	3.474E-02	-1.628E-01	1.024E-02	9.916E-01	-1.277E+00	-2.41E+03	4.03E+02	-1.60E+02	0.412
			-7.863E+01	1.923E-01	2.080E-01	3.462E-03	6.407E-02	1.288E+00	-1.93E+03	2.60E+01	1.61E+02	0.294
		325	-7.863E+01	3.067E-01	2.080E-01	3.462E-03	1.094E+00	5.350E-01	-1.93E+03	4.44E+02	6.69E+01	0.339
74	2	324	7.863E+01	-7.797E-02	-2.080E-01	-3.462E-03	7.943E-01	-1.825E+00	-1.93E+03	3.23E+02	-2.28E+02	0.344
			-9.821E+01	7.960E-02	1.628E-01	-1.024E-02	4.199E-03	1.025E+00	-2.41E+03	1.71E+00	1.28E+02	0.352
		325	-9.821E+01	1.939E-01	1.628E-01	-1.024E-02	8.286E-01	-1.529E-01	-2.41E+03	3.37E+02	-1.91E+01	0.384
74	3	324	1.311E+02	1.246E-01	-1.598E-01	1.225E-02	1.198E+00	-6.961E-01	-3.21E+03	4.87E+02	-8.70E+01	0.526
			-4.578E+01	2.821E-01	2.110E-01	5.473E-03	2.188E-01	1.359E+00	-1.12E+03	8.89E+01	1.70E+02	0.192
		325	-4.578E+01	3.965E-01	2.110E-01	5.473E-03	1.052E+00	8.392E-01	-1.12E+03	4.27E+02	1.05E+02	0.230
74	4	324	4.578E+01	-1.678E-01	-2.110E-01	-5.473E-03	5.882E-01	-2.405E+00	-1.12E+03	2.39E+02	-3.01E+02	0.231
			-1.311E+02	-1.021E-02	1.598E-01	-1.225E-02	-1.506E-01	9.542E-01	-3.21E+03	-6.12E+01	1.19E+02	0.471
		325	-1.311E+02	1.041E-01	1.598E-01	-1.225E-02	8.709E-01	-4.571E-01	-3.21E+03	3.54E+02	-5.71E+01	0.503
75	1	325	9.712E+01	3.055E-01	2.083E-01	3.738E-03	-8.261E-01	1.538E-01	-2.38E+03	-3.36E+02	1.92E+01	0.380
			-7.971E+01	-8.075E-02	-1.625E-01	1.052E-02	6.361E-02	1.288E+00	-1.95E+03	2.58E+01	1.61E+02	0.297
		326	-7.971E+01	3.359E-02	-1.625E-01	1.052E-02	-7.948E-01	1.811E+00	-1.95E+03	-3.23E+02	2.26E+02	0.348
75	2	325	7.971E+01	1.951E-01	1.625E-01	-1.052E-02	-1.096E+00	-5.359E-01	-1.95E+03	-4.45E+02	-6.70E+01	0.343
			-9.712E+01	-1.912E-01	-2.083E-01	-3.738E-03	4.656E-03	1.025E+00	-2.38E+03	1.89E+00	1.28E+02	0.349
		326	-9.712E+01	-7.682E-02	-2.083E-01	-3.738E-03	-9.912E-01	1.290E+00	-2.38E+03	-4.03E+02	1.61E+02	0.409
75	3	325	1.311E+02	3.965E-01	2.110E-01	5.211E-03	-8.709E-01	4.569E-01	-3.21E+03	-3.54E+02	5.71E+01	0.504
			-4.569E+01	1.021E-02	-1.599E-01	1.199E-02	2.188E-01	1.359E+00	-1.12E+03	8.89E+01	1.70E+02	0.191
		326	-4.569E+01	1.246E-01	-1.599E-01	1.199E-02	-5.885E-01	2.405E+00	-1.12E+03	-2.39E+02	3.01E+02	0.231
75	4	325	4.569E+01	1.041E-01	1.599E-01	-1.199E-02	-1.052E+00	-8.390E-01	-1.12E+03	-4.27E+02	-1.05E+02	0.229
			-1.311E+02	-2.821E-01	-2.110E-01	-5.211E-03	-1.505E-01	9.542E-01	-3.21E+03	-6.11E+01	1.19E+02	0.471

		326	-1.311E+02	-1.678E-01	-2.110E-01	-5.211E-03	-1.197E+00	6.960E-01	-3.21E+03	-4.86E+02	8.70E+01	0.526
76	1	326	9.776E+01	1.921E-02	-1.511E-01	3.738E-03	9.812E-01	-1.292E+00	-2.40E+03	3.99E+02	-1.61E+02	0.411
			-7.907E+01	1.879E-01	1.893E-01	1.052E-02	-1.735E-02	1.244E+00	-1.94E+03	-7.05E+00	1.55E+02	0.292
		327	-7.907E+01	3.023E-01	1.893E-01	1.052E-02	9.152E-01	3.974E-01	-1.94E+03	3.72E+02	4.97E+01	0.328
76	2	326	7.907E+01	-7.358E-02	-1.893E-01	-1.052E-02	7.950E-01	-1.803E+00	-1.94E+03	3.23E+02	-2.25E+02	0.345
			-9.776E+01	9.513E-02	1.511E-01	-3.738E-03	-5.678E-02	1.007E+00	-2.40E+03	-2.31E+01	1.26E+02	0.353
		327	-9.776E+01	2.095E-01	1.511E-01	-3.738E-03	7.126E-01	-1.335E-01	-2.40E+03	2.90E+02	-1.67E+01	0.375
76	3	326	1.311E+02	1.078E-01	-1.397E-01	5.211E-03	1.200E+00	-6.875E-01	-3.21E+03	4.88E+02	-8.59E+01	0.526
			-4.578E+01	2.765E-01	2.007E-01	1.199E-02	1.254E-01	1.355E+00	-1.12E+03	5.09E+01	1.69E+02	0.186
		327	-4.578E+01	3.909E-01	2.007E-01	1.199E-02	8.601E-01	6.583E-01	-1.12E+03	3.49E+02	8.23E+01	0.216
76	4	326	4.578E+01	-1.622E-01	-2.007E-01	-1.199E-02	5.761E-01	-2.407E+00	-1.12E+03	2.34E+02	-3.01E+02	0.230
			-1.311E+02	6.556E-03	1.397E-01	-5.211E-03	-1.995E-01	8.960E-01	-3.21E+03	-8.11E+01	1.12E+02	0.473
		327	-1.311E+02	1.209E-01	1.397E-01	-5.211E-03	7.678E-01	-3.945E-01	-3.21E+03	3.12E+02	-4.93E+01	0.496
77	1	327	6.451E+01	2.319E-01	1.582E-01	8.671E-03	-6.711E-01	1.485E-01	-1.58E+03	-2.73E+02	1.86E+01	0.260
			-5.353E+01	-3.619E-02	-1.187E-01	2.528E-02	1.288E-01	9.022E-01	-1.31E+03	5.23E+01	1.13E+02	0.205
		328	-5.353E+01	7.816E-02	-1.187E-01	2.528E-02	-5.057E-01	1.065E+00	-1.31E+03	-2.05E+02	1.33E+02	0.229
77	2	327	5.353E+01	1.505E-01	1.187E-01	-2.528E-02	-9.033E-01	-4.033E-01	-1.31E+03	-3.67E+02	-5.04E+01	0.240
			-6.451E+01	-1.176E-01	-1.582E-01	-8.671E-03	6.110E-02	6.930E-01	-1.58E+03	2.48E+01	8.66E+01	0.235
		328	-6.451E+01	-3.205E-03	-1.582E-01	-8.671E-03	-6.889E-01	7.271E-01	-1.58E+03	-2.80E+02	9.09E+01	0.271
77	3	327	8.656E+01	2.912E-01	1.503E-01	1.595E-02	-6.778E-01	3.942E-01	-2.12E+03	-2.75E+02	4.93E+01	0.340
			-3.149E+01	2.314E-02	-1.266E-01	3.257E-02	2.359E-01	9.158E-01	-7.72E+02	9.58E+01	1.14E+02	0.136
		328	-3.149E+01	1.375E-01	-1.266E-01	3.257E-02	-4.107E-01	1.402E+00	-7.72E+02	-1.67E+02	1.75E+02	0.155
77	4	327	3.149E+01	9.121E-02	1.266E-01	-3.257E-02	-8.966E-01	-6.490E-01	-7.72E+02	-3.64E+02	-8.11E+01	0.169
			-8.656E+01	-1.769E-01	-1.503E-01	-1.595E-02	-4.596E-02	6.794E-01	-2.12E+03	-1.87E+01	8.49E+01	0.309
		328	-8.656E+01	-6.253E-02	-1.503E-01	-1.595E-02	-7.838E-01	3.902E-01	-2.12E+03	-3.18E+02	4.88E+01	0.346
78	1	328	6.489E+01	7.590E-02	-6.622E-02	8.671E-03	6.714E-01	-7.268E-01	-1.59E+03	2.73E+02	-9.09E+01	0.271
			-5.315E+01	1.445E-01	1.270E-01	2.528E-02	-2.125E-02	8.714E-01	-1.30E+03	-8.63E+00	1.09E+02	0.197
		329	-5.315E+01	2.588E-01	1.270E-01	2.528E-02	6.082E-01	3.766E-01	-1.30E+03	2.47E+02	4.71E+01	0.222
78	2	328	5.315E+01	-3.012E-02	-1.270E-01	-2.528E-02	4.965E-01	-1.047E+00	-1.30E+03	2.02E+02	-1.31E+02	0.227
			-6.489E+01	3.845E-02	6.622E-02	-8.671E-03	-1.807E-01	5.600E-01	-1.59E+03	-7.34E+01	7.00E+01	0.241
		329	-6.489E+01	1.528E-01	6.622E-02	-8.671E-03	1.558E-01	-4.316E-01	-1.59E+03	6.33E+01	-5.39E+01	0.237
78	3	328	8.643E+01	8.235E-02	-7.842E-02	1.595E-02	7.905E-01	-3.687E-01	-2.12E+03	3.21E+02	-4.61E+01	0.345
			-3.161E+01	1.509E-01	1.148E-01	3.257E-02	2.307E-02	9.434E-01	-7.75E+02	9.37E+00	1.18E+02	0.125
		329	-3.161E+01	2.653E-01	1.148E-01	3.257E-02	4.501E-01	8.073E-02	-7.75E+02	1.83E+02	1.01E+01	0.134
78	4	328	3.161E+01	-3.657E-02	-1.148E-01	-3.257E-02	3.774E-01	-1.406E+00	-7.75E+02	1.53E+02	-1.76E+02	0.153
			-8.643E+01	3.200E-02	7.842E-02	-1.595E-02	-2.250E-01	4.880E-01	-2.12E+03	-9.14E+01	6.10E+01	0.315
		329	-8.643E+01	1.463E-01	7.842E-02	-1.595E-02	3.138E-01	-1.356E-01	-2.12E+03	1.27E+02	-1.70E+01	0.314
79	1	329	1.443E+00	2.574E-01	1.514E-01	2.382E-02	-7.478E-02	4.400E-01	-3.54E+01	-3.04E+01	5.50E+01	0.017
			1.250E+00	2.494E-01	6.537E-02	2.670E-02	4.074E-01	5.763E-01	3.06E+01	1.66E+02	7.20E+01	0.037
		330	1.250E+00	3.637E-01	6.537E-02	2.670E-02	7.327E-01	1.002E+00	3.06E+01	2.98E+02	1.25E+02	0.063
79	2	329	-1.250E+00	-1.350E-01	-6.537E-02	-2.670E-02	-5.580E-01	-3.818E-01	3.06E+01	-2.27E+02	-4.77E+01	0.042
			-1.443E+00	-1.430E-01	-1.514E-01	-2.382E-02	-2.045E-01	-5.945E-01	-3.54E+01	-8.31E+01	-7.43E+01	0.027
		330	-1.443E+00	-2.867E-02	-1.514E-01	-2.382E-02	-9.597E-01	-2.123E+00	-3.54E+01	-3.90E+02	-2.65E+02	0.096

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79	3	329	4.868E-01	9.256E-02	1.083E-01	7.966E-02	-9.176E-02	1.481E-01	-1.19E+01	-3.73E+01	1.85E+01	0.009
			2.942E-01	8.459E-02	2.230E-02	8.254E-02	2.187E-01	1.675E-01	7.21E+00	8.88E+01	2.09E+01	0.016
		330	2.942E-01	1.989E-01	2.230E-02	8.254E-02	3.226E-01	-2.485E-01	7.21E+00	1.31E+02	-3.11E+01	0.024
79	4	329	-2.942E-01	2.976E-02	-2.230E-02	-8.254E-02	-5.411E-01	-8.992E-02	7.21E+00	-2.20E+02	-1.12E+01	0.033
			-4.868E-01	2.178E-02	-1.083E-01	-7.966E-02	-1.580E-02	-1.858E-01	-1.19E+01	-6.42E+00	-2.32E+01	0.006
		330	-4.868E-01	1.361E-01	-1.083E-01	-7.966E-02	-5.497E-01	-8.733E-01	-1.19E+01	-2.23E+02	-1.09E+02	0.048
80	1	100	-2.498E+01	5.044E-01	1.608E-01	1.712E-01	6.919E-01	2.983E+00	6.12E+02	2.81E+02	3.73E+02	0.176
			4.464E+01	1.766E-01	4.639E-02	-1.222E-01	3.601E-01	9.425E-01	1.09E+03	1.46E+02	1.18E+02	0.189
		101	4.464E+01	2.910E-01	4.639E-02	-1.222E-01	-1.710E-01	9.322E-01	1.09E+03	-6.95E+01	1.17E+02	0.178
80	2	100	-4.464E+01	-6.228E-02	-4.639E-02	1.222E-01	-1.154E+00	-1.535E+00	1.09E+03	-4.69E+02	-1.92E+02	0.244
			2.498E+01	-3.900E-01	-1.608E-01	-1.712E-01	-4.698E-01	-7.524E-01	6.12E+02	-1.91E+02	-9.41E+01	0.125
		101	2.498E+01	-2.757E-01	-1.608E-01	-1.712E-01	-5.109E-01	-2.469E-01	6.12E+02	-2.08E+02	-3.09E+01	0.118
80	3	100	-2.533E+01	2.958E-01	1.057E-01	2.336E-01	1.361E-01	1.193E+00	6.21E+02	5.53E+01	1.49E+02	0.115
			4.429E+01	-3.199E-02	-8.777E-03	-5.977E-02	7.252E-02	2.252E-01	1.09E+03	2.95E+01	2.82E+01	0.159
		101	4.429E+01	8.236E-02	-8.777E-03	-5.977E-02	-2.191E-01	6.476E-01	1.09E+03	-8.90E+01	8.10E+01	0.174
80	4	100	-4.429E+01	1.463E-01	8.777E-03	5.977E-02	-5.986E-01	2.553E-01	1.09E+03	-2.43E+02	3.19E+01	0.189
			2.533E+01	-1.814E-01	-1.057E-01	-2.336E-01	-1.822E-01	-3.516E-02	6.21E+02	-7.40E+01	-4.40E+00	0.097
		101	2.533E+01	-6.706E-02	-1.057E-01	-2.336E-01	-4.628E-01	3.767E-02	6.21E+02	-1.88E+02	4.71E+00	0.113
81	1	101	-2.492E+01	2.315E-01	2.620E-03	-1.413E-01	4.742E-01	2.546E-01	6.11E+02	1.93E+02	3.18E+01	0.116
			4.469E+01	5.314E-02	1.666E-01	1.746E-01	4.477E-01	9.534E-01	1.10E+03	1.82E+02	1.19E+02	0.194
		102	4.469E+01	1.675E-01	1.666E-01	1.746E-01	1.273E+00	9.348E-01	1.10E+03	5.17E+02	1.17E+02	0.240
81	2	101	-4.469E+01	6.120E-02	-1.666E-01	-1.746E-01	2.395E-01	-9.184E-01	1.10E+03	9.73E+01	-1.15E+02	0.182
			2.492E+01	-1.171E-01	-2.620E-03	1.413E-01	-3.414E-01	6.020E-01	6.11E+02	-1.39E+02	7.52E+01	0.115
		102	2.492E+01	-2.770E-03	-2.620E-03	1.413E-01	-3.466E-01	3.687E-01	6.11E+02	-1.41E+02	4.61E+01	0.111
81	3	101	-2.525E+01	2.236E-01	-5.282E-02	-1.295E-01	3.898E-01	-2.424E-02	6.19E+02	1.58E+02	-3.03E+00	0.108
			4.436E+01	4.531E-02	1.112E-01	1.864E-01	2.091E-01	9.332E-01	1.09E+03	8.50E+01	1.17E+02	0.179
		102	4.436E+01	1.597E-01	1.112E-01	1.864E-01	7.633E-01	1.154E+00	1.09E+03	3.10E+02	1.44E+02	0.214
81	4	101	-4.436E+01	6.903E-02	-1.112E-01	-1.864E-01	3.239E-01	-6.395E-01	1.09E+03	1.32E+02	-7.99E+01	0.180
			2.525E+01	-1.093E-01	5.282E-02	1.295E-01	-1.028E-01	6.222E-01	6.19E+02	-4.18E+01	7.78E+01	0.103
		102	2.525E+01	5.063E-03	5.282E-02	1.295E-01	1.629E-01	1.493E-01	6.19E+02	6.62E+01	1.87E+01	0.098
82	1	102	-6.041E+01	1.631E-01	2.453E-01	1.940E-01	2.728E-01	-3.612E-01	1.48E+03	1.11E+02	-4.52E+01	0.227
			1.109E+02	5.483E-02	-4.021E-02	-1.559E-01	3.311E-01	1.116E+00	2.72E+03	1.35E+02	1.40E+02	0.416
		103	1.109E+02	1.692E-01	-4.021E-02	-1.559E-01	-6.073E-01	9.834E-01	2.72E+03	-2.47E+02	1.23E+02	0.429
82	2	102	-1.109E+02	5.952E-02	4.021E-02	1.559E-01	-1.545E+00	-9.228E-01	2.72E+03	-6.28E+02	-1.15E+02	0.481
			6.041E+01	-4.875E-02	-2.453E-01	-1.940E-01	-4.865E-01	7.090E-01	1.48E+03	-1.98E+02	8.86E+01	0.245
		103	6.041E+01	6.560E-02	-2.453E-01	-1.940E-01	-9.755E-01	2.398E-01	1.48E+03	-3.96E+02	3.00E+01	0.265
82	3	102	-6.090E+01	2.123E-01	1.754E-01	1.951E-01	-4.236E-01	-1.487E-01	1.49E+03	-1.72E+02	-1.86E+01	0.234
			1.104E+02	1.040E-01	-1.101E-01	-1.548E-01	-5.774E-03	1.058E+00	2.71E+03	-2.35E+00	1.32E+02	0.395
		103	1.104E+02	2.183E-01	-1.101E-01	-1.548E-01	-6.548E-01	1.167E+00	2.71E+03	-2.66E+02	1.46E+02	0.433
82	4	102	-1.104E+02	1.035E-02	1.101E-01	1.548E-01	-8.483E-01	-1.135E+00	2.71E+03	-3.45E+02	-1.42E+02	0.443
			6.090E+01	-9.792E-02	-1.754E-01	-1.951E-01	-1.496E-01	7.675E-01	1.49E+03	-6.08E+01	9.59E+01	0.229
		103	6.090E+01	1.643E-02	-1.754E-01	-1.951E-01	-9.279E-01	5.630E-02	1.49E+03	-3.77E+02	7.04E+00	0.261

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83	1	103	-6.037E+01	2.390E-01	-8.842E-02	-1.527E-01	9.260E-01	-2.447E-01	1.48E+03	3.76E+02	-3.06E+01	0.262
			1.109E+02	-2.967E-02	2.373E-01	1.712E-01	3.808E-01	1.517E+00	2.72E+03	1.55E+02	1.90E+02	0.425
		104	1.109E+02	8.468E-02	2.373E-01	1.712E-01	1.557E+00	1.690E+00	2.72E+03	6.33E+02	2.11E+02	0.495
83	2	103	-1.109E+02	1.440E-01	-2.373E-01	-1.712E-01	6.851E-01	-9.652E-01	2.72E+03	2.78E+02	-1.21E+02	0.433
			6.037E+01	-1.247E-01	8.842E-02	1.527E-01	-3.634E-01	1.037E+00	1.48E+03	-1.48E+02	1.30E+02	0.244
		104	6.037E+01	-1.033E-02	8.842E-02	1.527E-01	8.849E-02	1.063E+00	1.48E+03	3.59E+01	1.33E+02	0.229
83	3	103	-6.083E+01	3.191E-01	-1.371E-01	-1.466E-01	8.816E-01	-4.688E-02	1.49E+03	3.58E+02	-5.86E+00	0.258
			1.105E+02	5.043E-02	1.886E-01	1.773E-01	1.869E-01	1.505E+00	2.71E+03	7.59E+01	1.88E+02	0.413
		104	1.105E+02	1.648E-01	1.886E-01	1.773E-01	1.125E+00	2.156E+00	2.71E+03	4.57E+02	2.69E+02	0.477
83	4	103	-1.105E+02	6.391E-02	-1.886E-01	-1.773E-01	7.295E-01	-1.163E+00	2.71E+03	2.96E+02	-1.45E+02	0.437
			6.083E+01	-2.048E-01	1.371E-01	1.466E-01	-1.696E-01	1.048E+00	1.49E+03	-6.89E+01	1.31E+02	0.235
		104	6.083E+01	-9.044E-02	1.371E-01	1.466E-01	5.213E-01	5.974E-01	1.49E+03	2.12E+02	7.47E+01	0.247
84	1	104	-7.114E+01	1.064E-01	2.844E-01	1.786E-01	-2.167E-02	-1.060E+00	1.74E+03	-8.80E+00	-1.32E+02	0.262
			1.340E+02	1.295E-01	-8.432E-02	-1.588E-01	3.386E-01	1.574E+00	3.29E+03	1.38E+02	1.97E+02	0.503
		105	1.340E+02	2.438E-01	-8.432E-02	-1.588E-01	-7.509E-01	1.155E+00	3.29E+03	-3.05E+02	1.44E+02	0.519
84	2	104	-1.340E+02	-1.511E-02	8.432E-02	1.588E-01	-1.744E+00	-1.688E+00	3.29E+03	-7.08E+02	-2.11E+02	0.584
			7.114E+01	7.976E-03	-2.844E-01	-1.786E-01	-4.166E-01	1.058E+00	1.74E+03	-1.69E+02	1.32E+02	0.284
		105	7.114E+01	1.223E-01	-2.844E-01	-1.786E-01	-1.171E+00	2.183E-01	1.74E+03	-4.76E+02	2.73E+01	0.312
84	3	104	-7.113E+01	1.849E-01	2.106E-01	1.755E-01	-7.145E-01	-5.986E-01	1.74E+03	-2.90E+02	-7.48E+01	0.293
			1.341E+02	2.080E-01	-1.581E-01	-1.618E-01	4.522E-02	1.545E+00	3.29E+03	1.84E+01	1.93E+02	0.486
		105	1.341E+02	3.223E-01	-1.581E-01	-1.618E-01	-8.181E-01	1.375E+00	3.29E+03	-3.32E+02	1.72E+02	0.526
84	4	104	-1.341E+02	-9.363E-02	1.581E-01	1.618E-01	-1.051E+00	-2.149E+00	3.29E+03	-4.27E+02	-2.69E+02	0.553
			7.113E+01	-7.054E-02	-2.106E-01	-1.755E-01	-1.232E-01	1.086E+00	1.74E+03	-5.01E+01	1.36E+02	0.268
		105	7.113E+01	4.380E-02	-2.106E-01	-1.755E-01	-1.103E+00	-2.334E-03	1.74E+03	-4.48E+02	-2.92E-01	0.304
85	1	105	-7.110E+01	2.453E-01	-1.110E-01	-1.576E-01	1.131E+00	-2.193E-01	1.74E+03	4.60E+02	-2.74E+01	0.310
			1.341E+02	-6.477E-03	2.577E-01	1.797E-01	3.316E-01	1.573E+00	3.29E+03	1.35E+02	1.97E+02	0.502
		106	1.341E+02	1.079E-01	2.577E-01	1.797E-01	1.600E+00	1.702E+00	3.29E+03	6.50E+02	2.13E+02	0.576
85	2	105	-1.341E+02	1.208E-01	-2.577E-01	-1.797E-01	7.901E-01	-1.154E+00	3.29E+03	3.21E+02	-1.44E+02	0.521
			7.110E+01	-1.310E-01	1.110E-01	1.576E-01	-4.096E-01	1.059E+00	1.74E+03	-1.66E+02	1.32E+02	0.284
		106	7.110E+01	-1.661E-02	1.110E-01	1.576E-01	1.655E-01	1.045E+00	1.74E+03	6.72E+01	1.31E+02	0.270
85	3	105	-7.109E+01	3.227E-01	-1.664E-01	-1.624E-01	1.087E+00	2.067E-03	1.74E+03	4.42E+02	2.58E-01	0.303
			1.341E+02	7.095E-02	2.023E-01	1.750E-01	1.325E-01	1.543E+00	3.29E+03	5.38E+01	1.93E+02	0.491
		106	1.341E+02	1.853E-01	2.023E-01	1.750E-01	1.126E+00	2.151E+00	3.29E+03	4.57E+02	2.69E+02	0.557
85	4	105	-1.341E+02	4.340E-02	-2.023E-01	-1.750E-01	8.344E-01	-1.375E+00	3.29E+03	3.39E+02	-1.72E+02	0.527
			7.109E+01	-2.084E-01	1.664E-01	1.624E-01	-2.105E-01	1.089E+00	1.74E+03	-8.55E+01	1.36E+02	0.273
		106	7.109E+01	-9.403E-02	1.664E-01	1.624E-01	6.399E-01	5.961E-01	1.74E+03	2.60E+02	7.45E+01	0.288
86	1	106	-5.407E+01	1.101E-01	2.662E-01	1.692E-01	1.673E-02	-1.045E+00	1.33E+03	6.80E+00	-1.31E+02	0.203
			1.172E+02	1.501E-01	-5.951E-02	-1.547E-01	3.498E-01	1.503E+00	2.87E+03	1.42E+02	1.88E+02	0.445
		107	1.172E+02	2.644E-01	-5.951E-02	-1.547E-01	-5.573E-01	1.113E+00	2.87E+03	-2.26E+02	1.39E+02	0.450
86	2	106	-1.172E+02	-3.573E-02	5.951E-02	1.547E-01	-1.663E+00	-1.708E+00	2.87E+03	-6.75E+02	-2.14E+02	0.523
			5.407E+01	4.271E-03	-2.662E-01	-1.692E-01	-3.325E-01	1.050E+00	1.33E+03	-1.35E+02	1.31E+02	0.221
		107	5.407E+01	1.186E-01	-2.662E-01	-1.692E-01	-1.054E+00	9.676E-02	1.33E+03	-4.28E+02	1.21E+01	0.245
86	3	106	-5.793E+01	1.678E-01	1.838E-01	1.773E-01	-6.653E-01	-5.947E-01	1.42E+03	-2.70E+02	-7.43E+01	0.245

			1.134E+02	2.078E-01	-1.419E-01	-1.467E-01	9.624E-02	1.512E+00	2.78E+03	3.91E+01	1.89E+02	0.418
		107	1.134E+02	3.222E-01	-1.419E-01	-1.467E-01	-6.941E-01	1.199E+00	2.78E+03	-2.82E+02	1.50E+02	0.446
86	4	106	-1.134E+02	-9.349E-02	1.419E-01	1.467E-01	-9.805E-01	-2.159E+00	2.78E+03	-3.98E+02	-2.70E+02	0.479
			5.793E+01	-5.349E-02	-1.838E-01	-1.773E-01	-7.890E-02	1.041E+00	1.42E+03	-3.21E+01	1.30E+02	0.220
		107	5.793E+01	6.085E-02	-1.838E-01	-1.773E-01	-9.170E-01	1.062E-02	1.42E+03	-3.73E+02	1.33E+00	0.249
87	1	107	-5.400E+01	1.831E-01	-6.897E-02	-1.566E-01	1.002E+00	-9.627E-02	1.32E+03	4.07E+02	-1.20E+01	0.242
			1.173E+02	6.265E-02	2.165E-01	1.933E-01	2.995E-01	1.119E+00	2.88E+03	1.22E+02	1.40E+02	0.436
		108	1.173E+02	1.770E-01	2.165E-01	1.933E-01	1.352E+00	8.308E-01	2.88E+03	5.49E+02	1.04E+02	0.490
87	2	107	-1.173E+02	5.170E-02	-2.165E-01	-1.933E-01	5.808E-01	-1.127E+00	2.88E+03	2.36E+02	-1.41E+02	0.452
			5.400E+01	-6.873E-02	6.897E-02	1.566E-01	-4.549E-01	7.059E-01	1.32E+03	-1.85E+02	8.82E+01	0.222
		108	5.400E+01	4.562E-02	6.897E-02	1.566E-01	-7.972E-02	4.532E-01	1.32E+03	-3.24E+01	5.67E+01	0.196
87	3	107	-5.793E+01	2.210E-01	-1.277E-01	-1.548E-01	9.324E-01	-1.967E-02	1.42E+03	3.79E+02	-2.46E+00	0.250
			1.134E+02	1.006E-01	1.577E-01	1.951E-01	5.229E-02	1.078E+00	2.78E+03	2.12E+01	1.35E+02	0.408
		108	1.134E+02	2.150E-01	1.577E-01	1.951E-01	7.947E-01	1.133E+00	2.78E+03	3.23E+02	1.42E+02	0.451
87	4	107	-1.134E+02	1.373E-02	-1.577E-01	-1.951E-01	6.504E-01	-1.204E+00	2.78E+03	2.64E+02	-1.50E+02	0.444
			5.793E+01	-1.067E-01	1.277E-01	1.548E-01	-2.077E-01	7.477E-01	1.42E+03	-8.44E+01	9.35E+01	0.222
		108	5.793E+01	7.648E-03	1.277E-01	1.548E-01	4.772E-01	1.508E-01	1.42E+03	1.94E+02	1.89E+01	0.227
88	1	108	1.363E-01	1.321E-01	1.913E-01	1.749E-01	3.643E-01	-4.640E-01	-3.34E+00	1.48E+02	-5.80E+01	0.029
			6.975E+01	8.172E-02	2.735E-02	-1.410E-01	3.687E-01	9.043E-01	1.71E+03	1.50E+02	1.13E+02	0.274
		109	6.975E+01	1.961E-01	2.735E-02	-1.410E-01	-2.168E-02	6.791E-01	1.71E+03	-8.81E+00	8.49E+01	0.250
88	2	108	-6.975E+01	3.262E-02	-2.735E-02	1.410E-01	-1.291E+00	-8.395E-01	1.71E+03	-5.24E+02	-1.05E+02	0.325
			-1.363E-01	-1.775E-02	-1.913E-01	-1.749E-01	-2.624E-01	6.511E-01	-3.34E+00	-1.07E+02	8.14E+01	0.027
		109	-1.363E-01	9.659E-02	-1.913E-01	-1.749E-01	-6.920E-01	-1.527E-02	-3.34E+00	-2.81E+02	-1.91E+00	0.040
88	3	108	-1.911E+01	1.578E-01	1.008E-01	1.864E-01	-3.186E-01	-1.515E-01	4.68E+02	-1.29E+02	-1.89E+01	0.086
			5.050E+01	1.074E-01	-6.317E-02	-1.295E-01	1.233E-01	9.314E-01	1.24E+03	5.01E+01	1.16E+02	0.195
		109	5.050E+01	2.218E-01	-6.317E-02	-1.295E-01	-2.750E-01	6.178E-01	1.24E+03	-1.12E+02	7.72E+01	0.198
88	4	108	-5.050E+01	6.904E-03	6.317E-02	1.295E-01	-6.076E-01	-1.152E+00	1.24E+03	-2.47E+02	-1.44E+02	0.226
			1.911E+01	-4.347E-02	-1.008E-01	-1.864E-01	-1.705E-02	6.239E-01	4.68E+02	-6.93E+00	7.80E+01	0.077
		109	1.911E+01	7.088E-02	-1.008E-01	-1.864E-01	-4.387E-01	4.602E-02	4.68E+02	-1.78E+02	5.75E+00	0.091
89	1	109	1.776E-01	1.515E-01	5.314E-02	-1.205E-01	6.578E-01	1.656E-02	-4.35E+00	2.67E+02	2.07E+00	0.038
			6.980E+01	2.505E-01	1.676E-01	1.728E-01	3.909E-01	8.804E-01	1.71E+03	1.59E+02	1.10E+02	0.275
		110	6.980E+01	3.649E-01	1.676E-01	1.728E-01	1.183E+00	7.381E-01	1.71E+03	4.81E+02	9.23E+01	0.317
89	2	109	-6.980E+01	-1.362E-01	-1.676E-01	-1.728E-01	2.406E-02	-7.019E-01	1.71E+03	9.78E+00	-8.77E+01	0.251
			-1.776E-01	-3.712E-02	-5.314E-02	1.205E-01	-5.006E-01	-6.903E-01	-4.35E+00	-2.03E+02	-8.63E+01	0.041
		110	-1.776E-01	7.723E-02	-5.314E-02	1.205E-01	-7.206E-01	-2.187E+00	-4.35E+00	-2.93E+02	-2.73E+02	0.079
89	3	109	-1.912E+01	4.154E-02	-2.370E-02	-5.977E-02	4.850E-01	-5.948E-02	4.69E+02	1.97E+02	-7.44E+00	0.093
			5.050E+01	1.406E-01	9.074E-02	2.336E-01	3.976E-02	2.931E-01	1.24E+03	1.62E+01	3.66E+01	0.179
		110	5.050E+01	2.549E-01	9.074E-02	2.336E-01	4.622E-01	-4.883E-01	1.24E+03	1.88E+02	-6.10E+01	0.206
89	4	109	-5.050E+01	-2.623E-02	-9.074E-02	-2.336E-01	1.970E-01	-6.258E-01	1.24E+03	8.00E+01	-7.82E+01	0.194
			1.912E+01	7.281E-02	2.370E-02	5.977E-02	-1.494E-01	-1.030E-01	4.69E+02	-6.07E+01	-1.29E+01	0.075
		110	1.912E+01	1.872E-01	2.370E-02	5.977E-02	3.229E-04	-9.602E-01	4.69E+02	1.31E-01	-1.20E+02	0.082
90	1	120	-2.705E+01	4.855E-01	1.867E-01	-2.606E-02	7.595E-01	2.903E+00	6.63E+02	3.09E+02	3.63E+02	0.185
			3.312E+01	2.174E-01	6.654E-02	7.470E-02	3.020E-01	9.209E-01	8.12E+02	1.23E+02	1.15E+02	0.146

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		121	3.312E+01	3.317E-01	6.654E-02	7.470E-02	-8.637E-02	8.165E-01	8.12E+02	-3.51E+01	1.02E+02	0.132
90	2	120	-3.312E+01	-1.031E-01	-6.654E-02	-7.470E-02	-1.232E+00	-1.719E+00	8.12E+02	-5.01E+02	-2.15E+02	0.212
			2.705E+01	-3.712E-01	-1.867E-01	2.606E-02	-4.297E-01	-7.635E-01	6.63E+02	-1.75E+02	-9.54E+01	0.130
		121	2.705E+01	-2.569E-01	-1.867E-01	2.606E-02	-6.421E-01	-4.619E-01	6.63E+02	-2.61E+02	-5.77E+01	0.136
90	3	120	-2.772E+01	2.377E-01	8.138E-02	3.197E-02	-7.712E-02	9.638E-01	6.79E+02	-3.13E+01	1.20E+02	0.115
			3.245E+01	-3.046E-02	-3.877E-02	1.327E-01	1.851E-03	2.721E-01	7.95E+02	7.52E-01	3.40E+01	0.115
		121	3.245E+01	8.389E-02	-3.877E-02	1.327E-01	-2.872E-01	3.875E-01	7.95E+02	-1.17E+02	4.84E+01	0.133
90	4	120	-3.245E+01	1.448E-01	3.877E-02	-1.327E-01	-3.959E-01	2.196E-01	7.95E+02	-1.61E+02	2.74E+01	0.137
			2.772E+01	-1.233E-01	-8.138E-02	-3.197E-02	-1.296E-01	-1.148E-01	6.79E+02	-5.26E+01	-1.43E+01	0.104
		121	2.772E+01	-8.990E-03	-8.138E-02	-3.197E-02	-4.413E-01	-3.295E-02	6.79E+02	-1.79E+02	-4.12E+00	0.120
91	1	121	-1.763E+01	2.444E-01	-6.532E-02	3.799E-02	6.196E-01	4.335E-01	4.32E+02	2.52E+02	5.42E+01	0.103
			4.242E+01	4.458E-02	1.192E-01	-4.241E-03	2.061E-01	8.945E-01	1.04E+03	8.37E+01	1.12E+02	0.172
		122	4.242E+01	1.589E-01	1.192E-01	-4.241E-03	6.497E-01	8.815E-01	1.04E+03	2.64E+02	1.10E+02	0.196
91	2	121	-4.242E+01	6.976E-02	-1.192E-01	4.241E-03	1.441E-01	-8.221E-01	1.04E+03	5.85E+01	-1.03E+02	0.167
			1.763E+01	-1.300E-01	6.532E-02	-3.799E-02	-4.709E-02	4.931E-01	4.32E+02	-1.91E+01	6.16E+01	0.071
		122	1.763E+01	-1.570E-02	6.532E-02	-3.799E-02	4.320E-01	3.617E-01	4.32E+02	1.76E+02	4.52E+01	0.091
91	3	121	-1.494E+01	2.276E-01	-7.776E-02	4.397E-02	4.239E-01	4.442E-03	3.66E+02	1.72E+02	5.55E-01	0.075
			4.511E+01	2.784E-02	1.068E-01	1.739E-03	1.294E-01	8.825E-01	1.11E+03	5.25E+01	1.10E+02	0.176
		122	4.511E+01	1.422E-01	1.068E-01	1.739E-03	6.580E-01	1.151E+00	1.11E+03	2.67E+02	1.44E+02	0.211
91	4	121	-4.511E+01	8.650E-02	-1.068E-01	-1.739E-03	3.398E-01	-3.930E-01	1.11E+03	1.38E+02	-4.91E+01	0.180
			1.494E+01	-1.133E-01	7.776E-02	-4.397E-02	2.964E-02	5.051E-01	3.66E+02	1.20E+01	6.31E+01	0.061
		122	1.494E+01	1.045E-03	7.776E-02	-4.397E-02	4.237E-01	9.173E-02	3.66E+02	1.72E+02	1.15E+01	0.076
92	1	122	-6.063E+01	1.444E-01	1.496E-01	1.055E-02	-4.838E-01	-3.642E-01	1.49E+03	-1.97E+02	-4.55E+01	0.240
			8.814E+01	7.475E-02	-1.191E-01	2.400E-02	-2.529E-02	9.193E-01	2.16E+03	-1.03E+01	1.15E+02	0.317
		123	8.814E+01	1.891E-01	-1.191E-01	2.400E-02	-6.436E-01	7.112E-01	2.16E+03	-2.61E+02	8.89E+01	0.349
92	2	122	-8.814E+01	3.960E-02	1.191E-01	-2.400E-02	-6.468E-01	-8.969E-01	2.16E+03	-2.63E+02	-1.12E+02	0.352
			6.063E+01	-3.002E-02	-1.496E-01	-1.055E-02	-1.877E-01	6.900E-01	1.49E+03	-7.62E+01	8.62E+01	0.229
		123	6.063E+01	8.433E-02	-1.496E-01	-1.055E-02	-9.130E-01	1.027E-01	1.49E+03	-3.71E+02	1.28E+01	0.260
92	3	122	-5.868E+01	1.921E-01	1.455E-01	1.926E-02	-4.513E-01	-1.137E-01	1.44E+03	-1.83E+02	-1.42E+01	0.227
			9.009E+01	1.224E-01	-1.232E-01	3.271E-02	-1.292E-02	9.281E-01	2.21E+03	-5.25E+00	1.16E+02	0.324
		123	9.009E+01	2.368E-01	-1.232E-01	3.271E-02	-6.746E-01	9.209E-01	2.21E+03	-2.74E+02	1.15E+02	0.361
92	4	122	-9.009E+01	-8.102E-03	1.232E-01	-3.271E-02	-6.793E-01	-1.147E+00	2.21E+03	-2.76E+02	-1.43E+02	0.365
			5.868E+01	-7.772E-02	-1.455E-01	-1.926E-02	-2.001E-01	6.811E-01	1.44E+03	-8.13E+01	8.51E+01	0.223
		123	5.868E+01	3.662E-02	-1.455E-01	-1.926E-02	-8.819E-01	-1.071E-01	1.44E+03	-3.58E+02	-1.34E+01	0.251
93	1	123	-5.505E+01	2.495E-01	-1.476E-01	2.420E-02	8.867E-01	-1.154E-01	1.35E+03	3.60E+02	-1.44E+01	0.239
			9.362E+01	-3.567E-02	1.801E-01	-1.097E-02	1.193E-01	1.235E+00	2.29E+03	4.85E+01	1.54E+02	0.347
		124	9.362E+01	7.868E-02	1.801E-01	-1.097E-02	9.949E-01	1.513E+00	2.29E+03	4.04E+02	1.89E+02	0.401
93	2	123	-9.362E+01	1.500E-01	-1.801E-01	1.097E-02	7.039E-01	-7.055E-01	2.29E+03	2.86E+02	-8.82E+01	0.371
			5.505E+01	-1.352E-01	1.476E-01	-2.420E-02	-7.156E-02	1.011E+00	1.35E+03	-2.91E+01	1.26E+02	0.209
		124	5.505E+01	-2.081E-02	1.476E-01	-2.420E-02	6.912E-01	1.016E+00	1.35E+03	2.81E+02	1.27E+02	0.244
93	3	123	-4.979E+01	3.317E-01	-1.477E-01	2.475E-02	8.526E-01	1.075E-01	1.22E+03	3.46E+02	1.34E+01	0.219
			9.888E+01	4.652E-02	1.800E-01	-1.041E-02	1.223E-01	1.349E+00	2.42E+03	4.97E+01	1.69E+02	0.367
		124	9.888E+01	1.609E-01	1.800E-01	-1.041E-02	1.014E+00	2.104E+00	2.42E+03	4.12E+02	2.63E+02	0.430

93	4	123	-9.888E+01	6.783E-02	-1.800E-01	1.041E-02	7.380E-01	-9.284E-01	2.42E+03	3.00E+02	-1.16E+02	0.394
			4.979E+01	-2.173E-01	1.477E-01	-2.475E-02	-7.460E-02	8.973E-01	1.22E+03	-3.03E+01	1.12E+02	0.189
		124	4.979E+01	-1.030E-01	1.477E-01	-2.475E-02	6.723E-01	4.254E-01	1.22E+03	2.73E+02	5.32E+01	0.215
94	1	124	-6.883E+01	8.810E-02	2.036E-01	-3.634E-03	-7.073E-01	-1.017E+00	1.69E+03	-2.87E+02	-1.27E+02	0.292
			1.094E+02	1.323E-01	-1.562E-01	1.794E-02	5.486E-02	1.290E+00	2.68E+03	2.23E+01	1.61E+02	0.398
		125	1.094E+02	2.466E-01	-1.562E-01	1.794E-02	-7.796E-01	8.109E-01	2.68E+03	-3.17E+02	1.01E+02	0.430
94	2	124	-1.094E+02	-1.793E-02	1.562E-01	-1.794E-02	-9.973E-01	-1.519E+00	2.68E+03	-4.05E+02	-1.90E+02	0.455
			6.883E+01	2.624E-02	-2.036E-01	3.634E-03	-1.493E-01	1.025E+00	1.69E+03	-6.06E+01	1.28E+02	0.261
		125	6.883E+01	1.406E-01	-2.036E-01	3.634E-03	-1.114E+00	1.399E-01	1.69E+03	-4.52E+02	1.75E+01	0.300
94	3	124	-6.461E+01	1.777E-01	1.943E-01	1.965E-04	-6.851E-01	-4.336E-01	1.58E+03	-2.78E+02	-5.42E+01	0.266
			1.136E+02	2.218E-01	-1.655E-01	2.177E-02	7.400E-02	1.361E+00	2.78E+03	3.01E+01	1.70E+02	0.415
		125	1.136E+02	3.362E-01	-1.655E-01	2.177E-02	-8.383E-01	1.110E+00	2.78E+03	-3.41E+02	1.39E+02	0.453
94	4	124	-1.136E+02	-1.075E-01	1.655E-01	-2.177E-02	-1.019E+00	-2.102E+00	2.78E+03	-4.14E+02	-2.63E+02	0.481
			6.461E+01	-6.333E-02	-1.943E-01	-1.965E-04	-1.684E-01	9.539E-01	1.58E+03	-6.84E+01	1.19E+02	0.246
		125	6.461E+01	5.101E-02	-1.943E-01	-1.965E-04	-1.055E+00	-1.597E-01	1.58E+03	-4.29E+02	-2.00E+01	0.282
95	1	125	-6.985E+01	2.448E-01	-1.600E-01	1.828E-02	1.089E+00	-1.390E-01	1.71E+03	4.42E+02	-1.74E+01	0.302
			1.084E+02	-2.810E-02	1.998E-01	-3.295E-03	5.356E-02	1.289E+00	2.66E+03	2.18E+01	1.61E+02	0.394
		126	1.084E+02	8.625E-02	1.998E-01	-3.295E-03	9.937E-01	1.496E+00	2.66E+03	4.04E+02	1.87E+02	0.451
95	2	125	-1.084E+02	1.424E-01	-1.998E-01	3.295E-03	8.047E-01	-8.118E-01	2.66E+03	3.27E+02	-1.01E+02	0.428
			6.985E+01	-1.304E-01	1.600E-01	-1.828E-02	-1.480E-01	1.027E+00	1.71E+03	-6.01E+01	1.28E+02	0.264
		126	6.985E+01	-1.607E-02	1.600E-01	-1.828E-02	7.108E-01	1.040E+00	1.71E+03	2.89E+02	1.30E+02	0.296
95	3	125	-6.412E+01	3.363E-01	-1.654E-01	2.159E-02	1.047E+00	1.595E-01	1.57E+03	4.25E+02	1.99E+01	0.280
			1.141E+02	6.348E-02	1.943E-01	1.471E-05	6.853E-02	1.361E+00	2.80E+03	2.78E+01	1.70E+02	0.416
		126	1.141E+02	1.778E-01	1.943E-01	1.471E-05	1.017E+00	2.104E+00	2.80E+03	4.13E+02	2.63E+02	0.482
95	4	125	-1.141E+02	5.087E-02	-1.943E-01	-1.471E-05	8.464E-01	-1.110E+00	2.80E+03	3.44E+02	-1.39E+02	0.455
			6.412E+01	-2.220E-01	1.654E-01	-2.159E-02	-1.629E-01	9.543E-01	1.57E+03	-6.62E+01	1.19E+02	0.244
		126	6.412E+01	-1.077E-01	1.654E-01	-2.159E-02	6.874E-01	4.323E-01	1.57E+03	2.79E+02	5.40E+01	0.265
96	1	126	-5.478E+01	7.049E-02	1.938E-01	-1.075E-02	-6.859E-01	-1.042E+00	1.34E+03	-2.79E+02	-1.30E+02	0.243
			9.389E+01	1.270E-01	-1.339E-01	2.442E-02	1.229E-01	1.243E+00	2.30E+03	4.99E+01	1.55E+02	0.348
		127	9.389E+01	2.413E-01	-1.339E-01	2.442E-02	-5.960E-01	6.661E-01	2.30E+03	-2.42E+02	8.33E+01	0.365
96	2	126	-9.389E+01	-1.262E-02	1.339E-01	-2.442E-02	-1.000E+00	-1.487E+00	2.30E+03	-4.06E+02	-1.86E+02	0.402
			5.478E+01	4.386E-02	-1.938E-01	1.075E-02	-7.513E-02	1.004E+00	1.34E+03	-3.05E+01	1.25E+02	0.208
		127	5.478E+01	1.582E-01	-1.938E-01	1.075E-02	-9.947E-01	1.548E-01	1.34E+03	-4.04E+02	1.93E+01	0.245
96	3	126	-5.017E+01	1.616E-01	1.786E-01	-1.080E-02	-6.766E-01	-4.239E-01	1.23E+03	-2.75E+02	-5.30E+01	0.216
			9.850E+01	2.181E-01	-1.490E-01	2.437E-02	1.341E-01	1.349E+00	2.41E+03	5.45E+01	1.69E+02	0.366
		127	9.850E+01	3.324E-01	-1.490E-01	2.437E-02	-7.084E-01	9.352E-01	2.41E+03	-2.88E+02	1.17E+02	0.392
96	4	126	-9.850E+01	-1.037E-01	1.490E-01	-2.437E-02	-1.009E+00	-2.105E+00	2.41E+03	-4.10E+02	-2.63E+02	0.429
			5.017E+01	-4.726E-02	-1.786E-01	1.080E-02	-8.638E-02	8.975E-01	1.23E+03	-3.51E+01	1.12E+02	0.191
		127	5.017E+01	6.709E-02	-1.786E-01	1.080E-02	-8.822E-01	-1.143E-01	1.23E+03	-3.58E+02	-1.43E+01	0.223
97	1	127	-6.155E+01	1.728E-01	-1.063E-01	2.394E-02	9.567E-01	-1.410E-01	1.51E+03	3.89E+02	-1.76E+01	0.266
			8.723E+01	1.377E-02	1.624E-01	1.049E-02	-2.832E-02	9.199E-01	2.14E+03	-1.15E+01	1.15E+02	0.315
		128	8.723E+01	1.281E-01	1.624E-01	1.049E-02	7.057E-01	7.760E-01	2.14E+03	2.87E+02	9.70E+01	0.350

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97	2	127	-8.723E+01	1.006E-01	-1.624E-01	-1.049E-02	5.998E-01	-6.729E-01	2.14E+03	2.44E+02	-8.41E+01	0.342
			6.155E+01	-5.850E-02	1.063E-01	-2.394E-02	-1.847E-01	6.893E-01	1.51E+03	-7.50E+01	8.62E+01	0.232
		128	6.155E+01	5.585E-02	1.063E-01	-2.394E-02	4.249E-01	4.852E-01	1.51E+03	1.73E+02	6.06E+01	0.242
97	3	127	-5.816E+01	2.392E-01	-1.207E-01	3.265E-02	8.985E-01	1.139E-01	1.43E+03	3.65E+02	1.42E+01	0.251
			9.061E+01	8.011E-02	1.480E-01	1.920E-02	-1.832E-02	9.213E-01	2.22E+03	-7.44E+00	1.15E+02	0.325
		128	9.061E+01	1.945E-01	1.480E-01	1.920E-02	6.675E-01	1.161E+00	2.22E+03	2.71E+02	1.45E+02	0.366
97	4	127	-9.061E+01	3.424E-02	-1.480E-01	-1.920E-02	6.581E-01	-9.278E-01	2.22E+03	2.67E+02	-1.16E+02	0.362
			5.816E+01	-1.248E-01	1.207E-01	-3.265E-02	-1.947E-01	6.880E-01	1.43E+03	-7.91E+01	8.60E+01	0.221
		128	5.816E+01	-1.049E-02	1.207E-01	-3.265E-02	4.631E-01	1.005E-01	1.43E+03	1.88E+02	1.26E+01	0.226
98	1	128	-1.817E+01	1.230E-01	1.448E-01	-4.216E-03	-3.838E-01	-4.851E-01	4.45E+02	-1.56E+02	-6.06E+01	0.092
			4.188E+01	9.408E-02	-3.970E-02	3.802E-02	2.225E-01	8.561E-01	1.03E+03	9.04E+01	1.07E+02	0.170
		129	4.188E+01	2.084E-01	-3.970E-02	3.802E-02	1.111E-02	6.016E-01	1.03E+03	4.51E+00	7.52E+01	0.154
98	2	128	-4.188E+01	2.027E-02	3.970E-02	-3.802E-02	-6.979E-01	-7.580E-01	1.03E+03	-2.84E+02	-9.48E+01	0.195
			1.817E+01	-8.617E-03	-1.448E-01	4.216E-03	-6.354E-02	5.315E-01	4.45E+02	-2.58E+01	6.64E+01	0.075
		129	1.817E+01	1.057E-01	-1.448E-01	4.216E-03	-7.748E-01	-2.130E-01	4.45E+02	-3.15E+02	-2.66E+01	0.109
98	3	128	-1.518E+01	1.485E-01	1.044E-01	1.812E-03	-4.433E-01	-7.946E-02	3.72E+02	-1.80E+02	-9.93E+00	0.078
			4.487E+01	1.196E-01	-8.011E-02	4.404E-02	1.649E-01	8.740E-01	1.10E+03	6.70E+01	1.09E+02	0.177
		129	4.487E+01	2.339E-01	-8.011E-02	4.404E-02	-2.701E-01	4.520E-01	1.10E+03	-1.10E+02	5.65E+01	0.176
98	4	128	-4.487E+01	-5.250E-03	8.011E-02	-4.404E-02	-6.383E-01	-1.164E+00	1.10E+03	-2.59E+02	-1.45E+02	0.209
			1.518E+01	-3.414E-02	-1.044E-01	-1.812E-03	-5.935E-03	5.137E-01	3.72E+02	-2.41E+00	6.42E+01	0.061
		129	1.518E+01	8.021E-02	-1.044E-01	-1.812E-03	-4.936E-01	-6.341E-02	3.72E+02	-2.01E+02	-7.93E+00	0.081
99	1	129	-2.601E+01	2.407E-01	7.422E-02	7.633E-02	7.573E-01	2.395E-01	6.38E+02	3.08E+02	2.99E+01	0.135
			3.416E+01	2.802E-01	1.944E-01	-2.443E-02	2.581E-01	6.925E-01	8.37E+02	1.05E+02	8.66E+01	0.143
		130	3.416E+01	3.945E-01	1.944E-01	-2.443E-02	1.214E+00	1.035E+00	8.37E+02	4.93E+02	1.29E+02	0.203
99	2	129	-3.416E+01	-1.658E-01	-1.944E-01	2.443E-02	-2.882E-02	-5.941E-01	8.37E+02	-1.17E+01	-7.43E+01	0.128
			2.601E+01	-1.264E-01	-7.422E-02	-7.633E-02	-3.859E-01	-5.352E-01	6.38E+02	-1.57E+02	-6.69E+01	0.120
		130	2.601E+01	-1.204E-02	-7.422E-02	-7.633E-02	-7.406E-01	-2.218E+00	6.38E+02	-3.01E+02	-2.77E+02	0.169
99	3	129	-2.771E+01	9.605E-02	-5.620E-03	1.327E-01	5.483E-01	9.590E-02	6.79E+02	2.23E+02	1.20E+01	0.127
			3.246E+01	1.355E-01	1.145E-01	3.199E-02	3.504E-02	1.917E-01	7.96E+02	1.42E+01	2.40E+01	0.116
		130	3.246E+01	2.498E-01	1.145E-01	3.199E-02	6.025E-01	-2.416E-01	7.96E+02	2.45E+02	-3.02E+01	0.149
99	4	129	-3.246E+01	-2.115E-02	-1.145E-01	-3.199E-02	1.802E-01	-4.505E-01	7.96E+02	7.32E+01	-5.63E+01	0.128
			2.771E+01	1.830E-02	5.620E-03	-1.327E-01	-1.628E-01	-3.434E-02	6.79E+02	-6.61E+01	-4.29E+00	0.104
		130	2.771E+01	1.326E-01	5.620E-03	-1.327E-01	-1.295E-01	-9.418E-01	6.79E+02	-5.26E+01	-1.18E+02	0.118
100	1	301	5.558E+01	8.688E-02	0.000E+00	3.608E-02	0.000E+00	0.000E+00	-1.79E+03	0.00E+00	0.00E+00	0.249
			-4.264E+01	-7.656E-17	0.000E+00	1.343E-02	0.000E+00	3.072E-01	-1.38E+03	0.00E+00	1.64E+02	0.214
		100	-4.273E+01	8.688E-02	0.000E+00	1.343E-02	0.000E+00	0.000E+00	-1.38E+03	0.00E+00	0.00E+00	0.191
100	2	301	4.255E+01	8.688E-02	0.000E+00	-1.343E-02	0.000E+00	0.000E+00	-1.37E+03	0.00E+00	0.00E+00	0.191
			-5.567E+01	-1.162E-16	0.000E+00	-3.608E-02	0.000E+00	3.072E-01	-1.80E+03	0.00E+00	1.64E+02	0.272
		100	-5.575E+01	8.688E-02	0.000E+00	-3.608E-02	0.000E+00	0.000E+00	-1.80E+03	0.00E+00	0.00E+00	0.250
100	3	301	5.317E+01	8.688E-02	0.000E+00	6.949E-02	0.000E+00	0.000E+00	-1.72E+03	0.00E+00	0.00E+00	0.238
			-4.505E+01	-7.784E-17	0.000E+00	4.683E-02	0.000E+00	3.072E-01	-1.45E+03	0.00E+00	1.64E+02	0.225
		100	-4.513E+01	8.688E-02	0.000E+00	4.683E-02	0.000E+00	0.000E+00	-1.46E+03	0.00E+00	0.00E+00	0.202
100	4	301	4.496E+01	8.688E-02	0.000E+00	-4.683E-02	0.000E+00	0.000E+00	-1.45E+03	0.00E+00	0.00E+00	0.201

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			-5.326E+01	-1.149E-16	0.000E+00	-6.949E-02	0.000E+00	3.072E-01	-1.72E+03	0.00E+00	1.64E+02	0.261
		100	-5.334E+01	8.688E-02	0.000E+00	-6.949E-02	0.000E+00	0.000E+00	-1.72E+03	0.00E+00	0.00E+00	0.239
102	1	301	-4.041E+01	8.688E-02	0.000E+00	8.438E-03	0.000E+00	0.000E+00	1.30E+03	0.00E+00	0.00E+00	0.181
			5.314E+01	1.043E-16	0.000E+00	3.061E-02	0.000E+00	3.072E-01	1.71E+03	0.00E+00	1.64E+02	0.261
		102	5.306E+01	8.688E-02	0.000E+00	3.061E-02	0.000E+00	0.000E+00	1.71E+03	0.00E+00	0.00E+00	0.238
102	2	301	-5.323E+01	8.688E-02	0.000E+00	-3.061E-02	0.000E+00	0.000E+00	1.72E+03	0.00E+00	0.00E+00	0.238
			4.032E+01	6.966E-17	0.000E+00	-8.438E-03	0.000E+00	3.072E-01	1.30E+03	0.00E+00	1.64E+02	0.203
		102	4.024E+01	8.688E-02	0.000E+00	-8.438E-03	0.000E+00	0.000E+00	1.30E+03	0.00E+00	0.00E+00	0.180
102	3	301	-4.277E+01	8.688E-02	0.000E+00	1.916E-02	0.000E+00	0.000E+00	1.38E+03	0.00E+00	0.00E+00	0.192
			5.079E+01	1.045E-16	0.000E+00	4.134E-02	0.000E+00	3.072E-01	1.64E+03	0.00E+00	1.64E+02	0.250
		102	5.070E+01	8.688E-02	0.000E+00	4.134E-02	0.000E+00	0.000E+00	1.64E+03	0.00E+00	0.00E+00	0.227
102	4	301	-5.087E+01	8.688E-02	0.000E+00	-4.134E-02	0.000E+00	0.000E+00	1.64E+03	0.00E+00	0.00E+00	0.228
			4.268E+01	6.949E-17	0.000E+00	-1.916E-02	0.000E+00	3.072E-01	1.38E+03	0.00E+00	1.64E+02	0.214
		102	4.259E+01	8.688E-02	0.000E+00	-1.916E-02	0.000E+00	0.000E+00	1.37E+03	0.00E+00	0.00E+00	0.191
103	1	303	2.917E+01	6.306E-02	9.443E-18	4.550E-02	0.000E+00	0.000E+00	-1.30E+03	0.00E+00	0.00E+00	0.180
			-2.142E+01	-1.650E-17	2.053E-17	-6.609E-03	6.677E-17	2.229E-01	-9.52E+02	8.41E-14	1.62E+02	0.155
		102	-2.148E+01	6.306E-02	2.053E-17	-6.609E-03	0.000E+00	0.000E+00	-9.55E+02	0.00E+00	0.00E+00	0.133
103	2	303	2.136E+01	6.306E-02	-2.053E-17	6.609E-03	0.000E+00	0.000E+00	-9.49E+02	0.00E+00	0.00E+00	0.132
			-2.923E+01	-2.213E-17	-9.443E-18	-4.550E-02	-1.452E-16	2.229E-01	-1.30E+03	-1.83E-13	1.62E+02	0.203
		102	-2.929E+01	6.306E-02	-9.443E-18	-4.550E-02	0.000E+00	0.000E+00	-1.30E+03	0.00E+00	0.00E+00	0.181
103	3	303	2.800E+01	6.306E-02	5.167E-17	4.532E-02	0.000E+00	0.000E+00	-1.24E+03	0.00E+00	0.00E+00	0.173
			-2.259E+01	-1.679E-17	6.276E-17	-6.786E-03	3.654E-16	2.229E-01	-1.00E+03	4.60E-13	1.62E+02	0.162
		102	-2.265E+01	6.306E-02	6.276E-17	-6.786E-03	0.000E+00	0.000E+00	-1.01E+03	0.00E+00	0.00E+00	0.140
103	4	303	2.252E+01	6.306E-02	-6.276E-17	6.786E-03	0.000E+00	0.000E+00	-1.00E+03	0.00E+00	0.00E+00	0.139
			-2.806E+01	-2.184E-17	-5.167E-17	-4.532E-02	-4.438E-16	2.229E-01	-1.25E+03	-5.59E-13	1.62E+02	0.196
		102	-2.813E+01	6.306E-02	-5.167E-17	-4.532E-02	0.000E+00	0.000E+00	-1.25E+03	0.00E+00	0.00E+00	0.174
104	1	303	-1.891E+01	6.306E-02	2.800E-17	-6.646E-03	0.000E+00	0.000E+00	8.41E+02	0.00E+00	0.00E+00	0.117
			2.618E+01	7.202E-19	1.403E-17	2.402E-02	1.980E-16	2.229E-01	1.16E+03	2.49E-13	1.62E+02	0.184
		104	2.612E+01	6.306E-02	1.403E-17	2.402E-02	0.000E+00	0.000E+00	1.16E+03	0.00E+00	0.00E+00	0.161
104	2	303	-2.625E+01	6.306E-02	-1.403E-17	-2.402E-02	0.000E+00	0.000E+00	1.17E+03	0.00E+00	0.00E+00	0.162
			1.885E+01	-1.577E-18	-2.800E-17	6.646E-03	-9.918E-17	2.229E-01	8.38E+02	-1.25E-13	1.62E+02	0.139
		104	1.879E+01	6.306E-02	-2.800E-17	6.646E-03	0.000E+00	0.000E+00	8.35E+02	0.00E+00	0.00E+00	0.116
104	3	303	-2.005E+01	6.306E-02	6.252E-17	2.033E-03	0.000E+00	0.000E+00	8.91E+02	0.00E+00	0.00E+00	0.124
			2.504E+01	5.916E-19	4.854E-17	3.270E-02	4.421E-16	2.229E-01	1.11E+03	5.57E-13	1.62E+02	0.177
		104	2.498E+01	6.306E-02	4.854E-17	3.270E-02	0.000E+00	0.000E+00	1.11E+03	0.00E+00	0.00E+00	0.154
104	4	303	-2.510E+01	6.306E-02	-4.854E-17	-3.270E-02	0.000E+00	0.000E+00	1.12E+03	0.00E+00	0.00E+00	0.155
			1.999E+01	-1.448E-18	-6.252E-17	-2.033E-03	-3.433E-16	2.229E-01	8.88E+02	-4.32E-13	1.62E+02	0.146
		104	1.993E+01	6.306E-02	-6.252E-17	-2.033E-03	0.000E+00	0.000E+00	8.86E+02	0.00E+00	0.00E+00	0.123
105	1	305	4.285E+00	6.306E-02	1.394E-17	3.070E-02	0.000E+00	0.000E+00	-1.90E+02	0.00E+00	0.00E+00	0.026
			1.374E+00	-9.664E-18	2.941E-17	-1.101E-02	9.856E-17	2.229E-01	6.11E+01	1.24E-13	1.62E+02	0.031
		104	1.311E+00	6.306E-02	2.941E-17	-1.101E-02	0.000E+00	0.000E+00	5.83E+01	0.00E+00	0.00E+00	0.008
105	2	305	-1.437E+00	6.306E-02	-2.941E-17	1.101E-02	0.000E+00	0.000E+00	6.39E+01	0.00E+00	0.00E+00	0.009
			-4.348E+00	-1.196E-17	-1.394E-17	-3.070E-02	-2.080E-16	2.229E-01	-1.93E+02	-2.62E-13	1.62E+02	0.049

		104	-4.411E+00	6.306E-02	-1.394E-17	-3.070E-02	0.000E+00	0.000E+00	-1.96E+02	0.00E+00	0.00E+00	0.027
105	3	305	2.053E+00	6.306E-02	5.361E-17	2.662E-02	0.000E+00	0.000E+00	-9.12E+01	0.00E+00	0.00E+00	0.013
			-8.586E-01	-9.793E-18	6.909E-17	-1.509E-02	3.791E-16	2.229E-01	-3.82E+01	4.77E-13	1.62E+02	0.028
		104	-9.216E-01	6.306E-02	6.909E-17	-1.509E-02	0.000E+00	0.000E+00	-4.10E+01	0.00E+00	0.00E+00	0.006
105	4	305	7.955E-01	6.306E-02	-6.909E-17	1.509E-02	0.000E+00	0.000E+00	-3.54E+01	0.00E+00	0.00E+00	0.005
			-2.116E+00	-1.183E-17	-5.361E-17	-2.662E-02	-4.885E-16	2.229E-01	-9.40E+01	-6.15E-13	1.62E+02	0.036
		104	-2.179E+00	6.306E-02	-5.361E-17	-2.662E-02	0.000E+00	0.000E+00	-9.68E+01	0.00E+00	0.00E+00	0.013
106	1	305	4.703E+00	6.306E-02	2.936E-17	-1.205E-02	0.000E+00	0.000E+00	-2.09E+02	0.00E+00	0.00E+00	0.029
			1.792E+00	-9.518E-18	1.388E-17	2.966E-02	2.076E-16	2.229E-01	7.96E+01	2.61E-13	1.62E+02	0.034
		106	1.729E+00	6.306E-02	1.388E-17	2.966E-02	0.000E+00	0.000E+00	7.68E+01	0.00E+00	0.00E+00	0.011
106	2	305	-1.855E+00	6.306E-02	-1.388E-17	-2.966E-02	0.000E+00	0.000E+00	8.24E+01	0.00E+00	0.00E+00	0.011
			-4.766E+00	-1.211E-17	-2.936E-17	1.205E-02	-9.815E-17	2.229E-01	-2.12E+02	-1.24E-13	1.62E+02	0.052
		106	-4.829E+00	6.306E-02	-2.936E-17	1.205E-02	0.000E+00	0.000E+00	-2.15E+02	0.00E+00	0.00E+00	0.030
106	3	305	2.218E+00	6.306E-02	6.910E-17	-1.362E-02	0.000E+00	0.000E+00	-9.86E+01	0.00E+00	0.00E+00	0.014
			-6.939E-01	-9.881E-18	5.362E-17	2.809E-02	4.886E-16	2.229E-01	-3.08E+01	6.15E-13	1.62E+02	0.027
		106	-7.569E-01	6.306E-02	5.362E-17	2.809E-02	0.000E+00	0.000E+00	-3.36E+01	0.00E+00	0.00E+00	0.005
106	4	305	6.308E-01	6.306E-02	-5.362E-17	-2.809E-02	0.000E+00	0.000E+00	-2.80E+01	0.00E+00	0.00E+00	0.004
			-2.281E+00	-1.174E-17	-6.910E-17	1.362E-02	-3.792E-16	2.229E-01	-1.01E+02	-4.77E-13	1.62E+02	0.037
		106	-2.344E+00	6.306E-02	-6.910E-17	1.362E-02	0.000E+00	0.000E+00	-1.04E+02	0.00E+00	0.00E+00	0.014
107	1	307	-1.714E+01	6.306E-02	1.398E-17	2.531E-02	0.000E+00	0.000E+00	7.62E+02	0.00E+00	0.00E+00	0.106
			2.796E+01	8.664E-19	2.795E-17	-5.364E-03	9.883E-17	2.229E-01	1.24E+03	1.24E-13	1.62E+02	0.195
		106	2.789E+01	6.306E-02	2.795E-17	-5.364E-03	0.000E+00	0.000E+00	1.24E+03	0.00E+00	0.00E+00	0.172
107	2	307	-2.802E+01	6.306E-02	-2.795E-17	5.364E-03	0.000E+00	0.000E+00	1.25E+03	0.00E+00	0.00E+00	0.173
			1.707E+01	-1.723E-18	-1.398E-17	-2.531E-02	-1.976E-16	2.229E-01	7.59E+02	-2.49E-13	1.62E+02	0.128
		106	1.701E+01	6.306E-02	-1.398E-17	-2.531E-02	0.000E+00	0.000E+00	7.56E+02	0.00E+00	0.00E+00	0.105
107	3	307	-2.040E+01	6.306E-02	4.858E-17	3.289E-02	0.000E+00	0.000E+00	9.07E+02	0.00E+00	0.00E+00	0.126
			2.470E+01	5.034E-19	6.255E-17	2.221E-03	3.435E-16	2.229E-01	1.10E+03	4.33E-13	1.62E+02	0.175
		106	2.463E+01	6.306E-02	6.255E-17	2.221E-03	0.000E+00	0.000E+00	1.09E+03	0.00E+00	0.00E+00	0.152
107	4	307	-2.476E+01	6.306E-02	-6.255E-17	-2.221E-03	0.000E+00	0.000E+00	1.10E+03	0.00E+00	0.00E+00	0.153
			2.034E+01	-1.360E-18	-4.858E-17	-3.289E-02	-4.423E-16	2.229E-01	9.04E+02	-5.57E-13	1.62E+02	0.148
		106	2.027E+01	6.306E-02	-4.858E-17	-3.289E-02	0.000E+00	0.000E+00	9.01E+02	0.00E+00	0.00E+00	0.125
108	1	307	3.113E+01	6.306E-02	2.046E-17	-7.215E-03	0.000E+00	0.000E+00	-1.38E+03	0.00E+00	0.00E+00	0.192
			-1.945E+01	-1.654E-17	9.376E-18	4.489E-02	1.447E-16	2.229E-01	-8.65E+02	1.82E-13	1.62E+02	0.143
		108	-1.952E+01	6.306E-02	9.376E-18	4.489E-02	0.000E+00	0.000E+00	-8.67E+02	0.00E+00	0.00E+00	0.120
108	2	307	1.939E+01	6.306E-02	-9.376E-18	-4.489E-02	0.000E+00	0.000E+00	-8.62E+02	0.00E+00	0.00E+00	0.120
			-3.120E+01	-2.209E-17	-2.046E-17	7.215E-03	-6.630E-17	2.229E-01	-1.39E+03	-8.35E-14	1.62E+02	0.215
		108	-3.126E+01	6.306E-02	-2.046E-17	7.215E-03	0.000E+00	0.000E+00	-1.39E+03	0.00E+00	0.00E+00	0.193
108	3	307	2.773E+01	6.306E-02	6.275E-17	-5.462E-03	0.000E+00	0.000E+00	-1.23E+03	0.00E+00	0.00E+00	0.171
			-2.286E+01	-1.677E-17	5.166E-17	4.665E-02	4.437E-16	2.229E-01	-1.02E+03	5.59E-13	1.62E+02	0.164
		108	-2.292E+01	6.306E-02	5.166E-17	4.665E-02	0.000E+00	0.000E+00	-1.02E+03	0.00E+00	0.00E+00	0.141
108	4	307	2.279E+01	6.306E-02	-5.166E-17	-4.665E-02	0.000E+00	0.000E+00	-1.01E+03	0.00E+00	0.00E+00	0.141
			-2.779E+01	-2.186E-17	-6.275E-17	5.462E-03	-3.653E-16	2.229E-01	-1.24E+03	-4.60E-13	1.62E+02	0.194
		108	-2.786E+01	6.306E-02	-6.275E-17	5.462E-03	0.000E+00	0.000E+00	-1.24E+03	0.00E+00	0.00E+00	0.172

109	1	309	-3.975E+01	8.688E-02	0.000E+00	3.152E-02	0.000E+00	0.000E+00	1.28E+03	0.00E+00	0.00E+00	0.178
			5.381E+01	1.041E-16	0.000E+00	9.343E-03	0.000E+00	3.072E-01	1.74E+03	0.00E+00	1.64E+02	0.264
		108	5.372E+01	8.688E-02	0.000E+00	9.343E-03	0.000E+00	0.000E+00	1.73E+03	0.00E+00	0.00E+00	0.241
109	2	309	-5.389E+01	8.688E-02	0.000E+00	-9.343E-03	0.000E+00	0.000E+00	1.74E+03	0.00E+00	0.00E+00	0.241
			3.966E+01	6.988E-17	0.000E+00	-3.152E-02	0.000E+00	3.072E-01	1.28E+03	0.00E+00	1.64E+02	0.200
		108	3.957E+01	8.688E-02	0.000E+00	-3.152E-02	0.000E+00	0.000E+00	1.28E+03	0.00E+00	0.00E+00	0.177
109	3	309	-4.316E+01	8.688E-02	0.000E+00	4.214E-02	0.000E+00	0.000E+00	1.39E+03	0.00E+00	0.00E+00	0.193
			5.039E+01	1.046E-16	0.000E+00	1.996E-02	0.000E+00	3.072E-01	1.63E+03	0.00E+00	1.64E+02	0.249
		108	5.031E+01	8.688E-02	0.000E+00	1.996E-02	0.000E+00	0.000E+00	1.62E+03	0.00E+00	0.00E+00	0.225
109	4	309	-5.048E+01	8.688E-02	0.000E+00	-1.996E-02	0.000E+00	0.000E+00	1.63E+03	0.00E+00	0.00E+00	0.226
			4.307E+01	6.938E-17	0.000E+00	-4.214E-02	0.000E+00	3.072E-01	1.39E+03	0.00E+00	1.64E+02	0.216
		108	4.299E+01	8.688E-02	0.000E+00	-4.214E-02	0.000E+00	0.000E+00	1.39E+03	0.00E+00	0.00E+00	0.193
110	1	309	5.633E+01	8.688E-02	0.000E+00	1.660E-02	0.000E+00	0.000E+00	-1.82E+03	0.00E+00	0.00E+00	0.252
			-4.189E+01	-7.493E-17	0.000E+00	3.926E-02	0.000E+00	3.072E-01	-1.35E+03	0.00E+00	1.64E+02	0.210
		110	-4.198E+01	8.688E-02	0.000E+00	3.926E-02	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.188
110	2	309	4.180E+01	8.688E-02	0.000E+00	-3.926E-02	0.000E+00	0.000E+00	-1.35E+03	0.00E+00	0.00E+00	0.187
			-5.641E+01	-1.178E-16	0.000E+00	-1.660E-02	0.000E+00	3.072E-01	-1.82E+03	0.00E+00	1.64E+02	0.276
		110	-5.650E+01	8.688E-02	0.000E+00	-1.660E-02	0.000E+00	0.000E+00	-1.82E+03	0.00E+00	0.00E+00	0.253
110	3	309	5.276E+01	8.688E-02	0.000E+00	4.727E-02	0.000E+00	0.000E+00	-1.70E+03	0.00E+00	0.00E+00	0.236
			-4.546E+01	-7.676E-17	0.000E+00	6.993E-02	0.000E+00	3.072E-01	-1.47E+03	0.00E+00	1.64E+02	0.226
		110	-4.554E+01	8.688E-02	0.000E+00	6.993E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
110	4	309	4.537E+01	8.688E-02	0.000E+00	-6.993E-02	0.000E+00	0.000E+00	-1.46E+03	0.00E+00	0.00E+00	0.203
			-5.285E+01	-1.160E-16	0.000E+00	-4.727E-02	0.000E+00	3.072E-01	-1.70E+03	0.00E+00	1.64E+02	0.260
		110	-5.294E+01	8.688E-02	0.000E+00	-4.727E-02	0.000E+00	0.000E+00	-1.71E+03	0.00E+00	0.00E+00	0.237
120	1	321	4.598E+01	8.688E-02	0.000E+00	2.845E-02	0.000E+00	0.000E+00	-1.48E+03	0.00E+00	0.00E+00	0.206
			-3.883E+01	-7.348E-17	0.000E+00	2.050E-02	0.000E+00	3.072E-01	-1.25E+03	0.00E+00	1.64E+02	0.197
		120	-3.891E+01	8.688E-02	0.000E+00	2.050E-02	0.000E+00	0.000E+00	-1.26E+03	0.00E+00	0.00E+00	0.174
120	2	321	3.874E+01	8.688E-02	0.000E+00	-2.050E-02	0.000E+00	0.000E+00	-1.25E+03	0.00E+00	0.00E+00	0.174
			-4.607E+01	-9.389E-17	0.000E+00	-2.845E-02	0.000E+00	3.072E-01	-1.49E+03	0.00E+00	1.64E+02	0.229
		120	-4.615E+01	8.688E-02	0.000E+00	-2.845E-02	0.000E+00	0.000E+00	-1.49E+03	0.00E+00	0.00E+00	0.207
120	3	321	4.554E+01	8.688E-02	0.000E+00	6.117E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
			-3.926E+01	-6.657E-17	0.000E+00	5.323E-02	0.000E+00	3.072E-01	-1.27E+03	0.00E+00	1.64E+02	0.199
		120	-3.935E+01	8.688E-02	0.000E+00	5.323E-02	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
120	4	321	3.918E+01	8.688E-02	0.000E+00	-5.323E-02	0.000E+00	0.000E+00	-1.26E+03	0.00E+00	0.00E+00	0.176
			-4.563E+01	-1.008E-16	0.000E+00	-6.117E-02	0.000E+00	3.072E-01	-1.47E+03	0.00E+00	1.64E+02	0.227
		120	-4.572E+01	8.688E-02	0.000E+00	-6.117E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.205
122	1	321	-3.756E+01	8.688E-02	0.000E+00	6.468E-03	0.000E+00	0.000E+00	1.21E+03	0.00E+00	0.00E+00	0.168
			4.459E+01	8.454E-17	0.000E+00	3.009E-02	0.000E+00	3.072E-01	1.44E+03	0.00E+00	1.64E+02	0.223
		122	4.451E+01	8.688E-02	0.000E+00	3.009E-02	0.000E+00	0.000E+00	1.44E+03	0.00E+00	0.00E+00	0.199
122	2	321	-4.468E+01	8.688E-02	0.000E+00	-3.009E-02	0.000E+00	0.000E+00	1.44E+03	0.00E+00	0.00E+00	0.200
			3.747E+01	6.685E-17	0.000E+00	-6.468E-03	0.000E+00	3.072E-01	1.21E+03	0.00E+00	1.64E+02	0.191
		122	3.738E+01	8.688E-02	0.000E+00	-6.468E-03	0.000E+00	0.000E+00	1.21E+03	0.00E+00	0.00E+00	0.167

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122	3	321	-3.802E+01	8.688E-02	0.000E+00	1.566E-02	0.000E+00	0.000E+00	1.23E+03	0.00E+00	0.00E+00	0.170
			4.413E+01	9.256E-17	0.000E+00	3.928E-02	0.000E+00	3.072E-01	1.42E+03	0.00E+00	1.64E+02	0.220
		122	4.404E+01	8.688E-02	0.000E+00	3.928E-02	0.000E+00	0.000E+00	1.42E+03	0.00E+00	0.00E+00	0.197
122	4	321	-4.422E+01	8.688E-02	0.000E+00	-3.928E-02	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.198
			3.794E+01	5.883E-17	0.000E+00	-1.566E-02	0.000E+00	3.072E-01	1.22E+03	0.00E+00	1.64E+02	0.193
		122	3.785E+01	8.688E-02	0.000E+00	-1.566E-02	0.000E+00	0.000E+00	1.22E+03	0.00E+00	0.00E+00	0.170
123	1	323	2.417E+01	6.306E-02	9.439E-18	4.513E-02	0.000E+00	0.000E+00	-1.07E+03	0.00E+00	0.00E+00	0.149
			-1.922E+01	-1.609E-17	2.058E-17	-1.000E-02	6.675E-17	2.229E-01	-8.54E+02	8.41E-14	1.62E+02	0.141
		122	-1.928E+01	6.306E-02	2.058E-17	-1.000E-02	0.000E+00	0.000E+00	-8.57E+02	0.00E+00	0.00E+00	0.119
123	2	323	1.916E+01	6.306E-02	-2.058E-17	1.000E-02	0.000E+00	0.000E+00	-8.51E+02	0.00E+00	0.00E+00	0.118
			-2.423E+01	-1.897E-17	-9.439E-18	-4.513E-02	-1.455E-16	2.229E-01	-1.08E+03	-1.83E-13	1.62E+02	0.172
		122	-2.429E+01	6.306E-02	-9.439E-18	-4.513E-02	0.000E+00	0.000E+00	-1.08E+03	0.00E+00	0.00E+00	0.150
123	3	323	2.384E+01	6.306E-02	5.162E-17	5.066E-02	0.000E+00	0.000E+00	-1.06E+03	0.00E+00	0.00E+00	0.147
			-1.955E+01	-1.527E-17	6.276E-17	-4.461E-03	3.650E-16	2.229E-01	-8.69E+02	4.60E-13	1.62E+02	0.143
		122	-1.961E+01	6.306E-02	6.276E-17	-4.461E-03	0.000E+00	0.000E+00	-8.72E+02	0.00E+00	0.00E+00	0.121
123	4	323	1.949E+01	6.306E-02	-6.276E-17	4.461E-03	0.000E+00	0.000E+00	-8.66E+02	0.00E+00	0.00E+00	0.120
			-2.390E+01	-1.979E-17	-5.162E-17	-5.066E-02	-4.438E-16	2.229E-01	-1.06E+03	-5.59E-13	1.62E+02	0.170
		122	-2.396E+01	6.306E-02	-5.162E-17	-5.066E-02	0.000E+00	0.000E+00	-1.07E+03	0.00E+00	0.00E+00	0.148
124	1	323	-1.758E+01	6.306E-02	2.806E-17	-9.132E-03	0.000E+00	0.000E+00	7.82E+02	0.00E+00	0.00E+00	0.109
			2.235E+01	-5.206E-19	1.403E-17	2.485E-02	1.984E-16	2.229E-01	9.93E+02	2.50E-13	1.62E+02	0.160
		124	2.229E+01	6.306E-02	1.403E-17	2.485E-02	0.000E+00	0.000E+00	9.91E+02	0.00E+00	0.00E+00	0.138
124	2	323	-2.241E+01	6.306E-02	-1.403E-17	-2.485E-02	0.000E+00	0.000E+00	9.96E+02	0.00E+00	0.00E+00	0.138
			1.752E+01	-1.683E-18	-2.806E-17	9.132E-03	-9.919E-17	2.229E-01	7.79E+02	-1.25E-13	1.62E+02	0.131
		124	1.746E+01	6.306E-02	-2.806E-17	9.132E-03	0.000E+00	0.000E+00	7.76E+02	0.00E+00	0.00E+00	0.108
124	3	323	-1.817E+01	6.306E-02	6.252E-17	-4.595E-03	0.000E+00	0.000E+00	8.08E+02	0.00E+00	0.00E+00	0.112
			2.176E+01	-2.365E-19	4.848E-17	2.939E-02	4.421E-16	2.229E-01	9.67E+02	5.57E-13	1.62E+02	0.157
		124	2.170E+01	6.306E-02	4.848E-17	2.939E-02	0.000E+00	0.000E+00	9.64E+02	0.00E+00	0.00E+00	0.134
124	4	323	-2.183E+01	6.306E-02	-4.848E-17	-2.939E-02	0.000E+00	0.000E+00	9.70E+02	0.00E+00	0.00E+00	0.135
			1.811E+01	-1.967E-18	-6.252E-17	4.595E-03	-3.428E-16	2.229E-01	8.05E+02	-4.32E-13	1.62E+02	0.134
		124	1.804E+01	6.306E-02	-6.252E-17	4.595E-03	0.000E+00	0.000E+00	8.02E+02	0.00E+00	0.00E+00	0.111
125	1	325	3.344E+00	6.306E-02	1.394E-17	3.028E-02	0.000E+00	0.000E+00	-1.49E+02	0.00E+00	0.00E+00	0.021
			1.468E+00	-9.558E-18	2.948E-17	-1.597E-02	9.854E-17	2.229E-01	6.53E+01	1.24E-13	1.62E+02	0.032
		124	1.405E+00	6.306E-02	2.948E-17	-1.597E-02	0.000E+00	0.000E+00	6.25E+01	0.00E+00	0.00E+00	0.009
125	2	325	-1.531E+00	6.306E-02	-2.948E-17	1.597E-02	0.000E+00	0.000E+00	6.81E+01	0.00E+00	0.00E+00	0.009
			-3.407E+00	-1.072E-17	-1.394E-17	-3.028E-02	-2.085E-16	2.229E-01	-1.51E+02	-2.63E-13	1.62E+02	0.044
		124	-3.470E+00	6.306E-02	-1.394E-17	-3.028E-02	0.000E+00	0.000E+00	-1.54E+02	0.00E+00	0.00E+00	0.021
125	3	325	1.592E+00	6.306E-02	5.354E-17	3.020E-02	0.000E+00	0.000E+00	-7.08E+01	0.00E+00	0.00E+00	0.010
			-2.836E-01	-9.274E-18	6.909E-17	-1.605E-02	3.786E-16	2.229E-01	-1.26E+01	4.77E-13	1.62E+02	0.024
		124	-3.467E-01	6.306E-02	6.909E-17	-1.605E-02	0.000E+00	0.000E+00	-1.54E+01	0.00E+00	0.00E+00	0.002
125	4	325	2.206E-01	6.306E-02	-6.909E-17	1.605E-02	0.000E+00	0.000E+00	-9.80E+00	0.00E+00	0.00E+00	0.001
			-1.655E+00	-1.100E-17	-5.354E-17	-3.020E-02	-4.885E-16	2.229E-01	-7.36E+01	-6.15E-13	1.62E+02	0.033
		124	-1.718E+00	6.306E-02	-5.354E-17	-3.020E-02	0.000E+00	0.000E+00	-7.64E+01	0.00E+00	0.00E+00	0.011
126	1	325	3.461E+00	6.306E-02	2.942E-17	-1.566E-02	0.000E+00	0.000E+00	-1.54E+02	0.00E+00	0.00E+00	0.021

			1.585E+00	-9.571E-18	1.388E-17	3.060E-02	2.080E-16	2.229E-01	7.04E+01	2.62E-13	1.62E+02	0.032
		126	1.522E+00	6.306E-02	1.388E-17	3.060E-02	0.000E+00	0.000E+00	6.76E+01	0.00E+00	0.00E+00	0.009
126	2	325	-1.648E+00	6.306E-02	-1.388E-17	-3.060E-02	0.000E+00	0.000E+00	7.32E+01	0.00E+00	0.00E+00	0.010
			-3.524E+00	-1.071E-17	-2.942E-17	1.566E-02	-9.811E-17	2.229E-01	-1.57E+02	-1.24E-13	1.62E+02	0.044
		126	-3.587E+00	6.306E-02	-2.942E-17	1.566E-02	0.000E+00	0.000E+00	-1.59E+02	0.00E+00	0.00E+00	0.022
126	3	325	1.460E+00	6.306E-02	6.910E-17	-1.665E-02	0.000E+00	0.000E+00	-6.49E+01	0.00E+00	0.00E+00	0.009
			-4.158E-01	-9.273E-18	5.356E-17	2.961E-02	4.886E-16	2.229E-01	-1.85E+01	6.15E-13	1.62E+02	0.025
		126	-4.788E-01	6.306E-02	5.356E-17	2.961E-02	0.000E+00	0.000E+00	-2.13E+01	0.00E+00	0.00E+00	0.003
126	4	325	3.527E-01	6.306E-02	-5.356E-17	-2.961E-02	0.000E+00	0.000E+00	-1.57E+01	0.00E+00	0.00E+00	0.002
			-1.523E+00	-1.101E-17	-6.910E-17	1.665E-02	-3.787E-16	2.229E-01	-6.77E+01	-4.77E-13	1.62E+02	0.032
		126	-1.586E+00	6.306E-02	-6.910E-17	1.665E-02	0.000E+00	0.000E+00	-7.05E+01	0.00E+00	0.00E+00	0.010
127	1	327	-1.644E+01	6.306E-02	1.398E-17	2.535E-02	0.000E+00	0.000E+00	7.30E+02	0.00E+00	0.00E+00	0.101
			2.350E+01	-5.338E-19	2.801E-17	-8.635E-03	9.882E-17	2.229E-01	1.04E+03	1.24E-13	1.62E+02	0.168
		126	2.343E+01	6.306E-02	2.801E-17	-8.635E-03	0.000E+00	0.000E+00	1.04E+03	0.00E+00	0.00E+00	0.145
127	2	327	-2.356E+01	6.306E-02	-2.801E-17	8.635E-03	0.000E+00	0.000E+00	1.05E+03	0.00E+00	0.00E+00	0.145
			1.637E+01	-1.670E-18	-1.398E-17	-2.535E-02	-1.981E-16	2.229E-01	7.28E+02	-2.49E-13	1.62E+02	0.124
		126	1.631E+01	6.306E-02	-1.398E-17	-2.535E-02	0.000E+00	0.000E+00	7.25E+02	0.00E+00	0.00E+00	0.101
127	3	327	-1.816E+01	6.306E-02	4.852E-17	2.917E-02	0.000E+00	0.000E+00	8.07E+02	0.00E+00	0.00E+00	0.112
			2.177E+01	-2.357E-19	6.255E-17	-4.808E-03	3.431E-16	2.229E-01	9.68E+02	4.32E-13	1.62E+02	0.157
		126	2.171E+01	6.306E-02	6.255E-17	-4.808E-03	0.000E+00	0.000E+00	9.65E+02	0.00E+00	0.00E+00	0.134
127	4	327	-2.184E+01	6.306E-02	-6.255E-17	4.808E-03	0.000E+00	0.000E+00	9.71E+02	0.00E+00	0.00E+00	0.135
			1.810E+01	-1.968E-18	-4.852E-17	-2.917E-02	-4.423E-16	2.229E-01	8.04E+02	-5.57E-13	1.62E+02	0.134
		126	1.803E+01	6.306E-02	-4.852E-17	-2.917E-02	0.000E+00	0.000E+00	8.01E+02	0.00E+00	0.00E+00	0.111
128	1	327	2.539E+01	6.306E-02	2.051E-17	-1.020E-02	0.000E+00	0.000E+00	-1.13E+03	0.00E+00	0.00E+00	0.157
			-1.800E+01	-1.610E-17	9.367E-18	4.493E-02	1.450E-16	2.229E-01	-8.00E+02	1.83E-13	1.62E+02	0.134
		128	-1.806E+01	6.306E-02	9.367E-18	4.493E-02	0.000E+00	0.000E+00	-8.03E+02	0.00E+00	0.00E+00	0.111
128	2	327	1.794E+01	6.306E-02	-9.367E-18	-4.493E-02	0.000E+00	0.000E+00	-7.97E+02	0.00E+00	0.00E+00	0.111
			-2.545E+01	-1.896E-17	-2.051E-17	1.020E-02	-6.624E-17	2.229E-01	-1.13E+03	-8.34E-14	1.62E+02	0.180
		128	-2.552E+01	6.306E-02	-2.051E-17	1.020E-02	0.000E+00	0.000E+00	-1.13E+03	0.00E+00	0.00E+00	0.158
128	3	327	2.378E+01	6.306E-02	6.274E-17	-4.676E-03	0.000E+00	0.000E+00	-1.06E+03	0.00E+00	0.00E+00	0.147
			-1.961E+01	-1.528E-17	5.160E-17	5.045E-02	4.437E-16	2.229E-01	-8.71E+02	5.59E-13	1.62E+02	0.144
		128	-1.967E+01	6.306E-02	5.160E-17	5.045E-02	0.000E+00	0.000E+00	-8.74E+02	0.00E+00	0.00E+00	0.121
128	4	327	1.954E+01	6.306E-02	-5.160E-17	-5.045E-02	0.000E+00	0.000E+00	-8.69E+02	0.00E+00	0.00E+00	0.121
			-2.385E+01	-1.978E-17	-6.274E-17	4.676E-03	-3.649E-16	2.229E-01	-1.06E+03	-4.59E-13	1.62E+02	0.170
		128	-2.391E+01	6.306E-02	-6.274E-17	4.676E-03	0.000E+00	0.000E+00	-1.06E+03	0.00E+00	0.00E+00	0.148
129	1	329	-3.651E+01	8.688E-02	0.000E+00	2.979E-02	0.000E+00	0.000E+00	1.18E+03	0.00E+00	0.00E+00	0.164
			4.564E+01	8.445E-17	0.000E+00	6.165E-03	0.000E+00	3.072E-01	1.47E+03	0.00E+00	1.64E+02	0.227
		128	4.555E+01	8.688E-02	0.000E+00	6.165E-03	0.000E+00	0.000E+00	1.47E+03	0.00E+00	0.00E+00	0.204
129	2	329	-4.573E+01	8.688E-02	0.000E+00	-6.165E-03	0.000E+00	0.000E+00	1.48E+03	0.00E+00	0.00E+00	0.205
			3.643E+01	6.693E-17	0.000E+00	-2.979E-02	0.000E+00	3.072E-01	1.18E+03	0.00E+00	1.64E+02	0.186
		128	3.634E+01	8.688E-02	0.000E+00	-2.979E-02	0.000E+00	0.000E+00	1.17E+03	0.00E+00	0.00E+00	0.163
129	3	329	-3.805E+01	8.688E-02	0.000E+00	3.896E-02	0.000E+00	0.000E+00	1.23E+03	0.00E+00	0.00E+00	0.170
			4.410E+01	9.254E-17	0.000E+00	1.534E-02	0.000E+00	3.072E-01	1.42E+03	0.00E+00	1.64E+02	0.220

		128	4.401E+01	8.688E-02	0.000E+00	1.534E-02	0.000E+00	0.000E+00	1.42E+03	0.00E+00	0.00E+00	0.197
129	4	329	-4.419E+01	8.688E-02	0.000E+00	-1.534E-02	0.000E+00	0.000E+00	1.43E+03	0.00E+00	0.00E+00	0.198
			3.796E+01	5.885E-17	0.000E+00	-3.896E-02	0.000E+00	3.072E-01	1.22E+03	0.00E+00	1.64E+02	0.193
		128	3.788E+01	8.688E-02	0.000E+00	-3.896E-02	0.000E+00	0.000E+00	1.22E+03	0.00E+00	0.00E+00	0.170
130	1	329	4.700E+01	8.688E-02	0.000E+00	1.971E-02	0.000E+00	0.000E+00	-1.52E+03	0.00E+00	0.00E+00	0.211
			-3.780E+01	-7.349E-17	0.000E+00	2.766E-02	0.000E+00	3.072E-01	-1.22E+03	0.00E+00	1.64E+02	0.192
		130	-3.789E+01	8.688E-02	0.000E+00	2.766E-02	0.000E+00	0.000E+00	-1.22E+03	0.00E+00	0.00E+00	0.170
130	2	329	3.771E+01	8.688E-02	0.000E+00	-2.766E-02	0.000E+00	0.000E+00	-1.22E+03	0.00E+00	0.00E+00	0.169
			-4.709E+01	-9.388E-17	0.000E+00	-1.971E-02	0.000E+00	3.072E-01	-1.52E+03	0.00E+00	1.64E+02	0.234
		130	-4.718E+01	8.688E-02	0.000E+00	-1.971E-02	0.000E+00	0.000E+00	-1.52E+03	0.00E+00	0.00E+00	0.211
130	3	329	4.550E+01	8.688E-02	0.000E+00	5.308E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.204
			-3.931E+01	-6.659E-17	0.000E+00	6.103E-02	0.000E+00	3.072E-01	-1.27E+03	0.00E+00	1.64E+02	0.199
		130	-3.939E+01	8.688E-02	0.000E+00	6.103E-02	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
130	4	329	3.922E+01	8.688E-02	0.000E+00	-6.103E-02	0.000E+00	0.000E+00	-1.27E+03	0.00E+00	0.00E+00	0.176
			-4.558E+01	-1.008E-16	0.000E+00	-5.308E-02	0.000E+00	3.072E-01	-1.47E+03	0.00E+00	1.64E+02	0.227
		130	-4.567E+01	8.688E-02	0.000E+00	-5.308E-02	0.000E+00	0.000E+00	-1.47E+03	0.00E+00	0.00E+00	0.205
140	1	301	-7.642E-01	-1.666E-17	5.361E-18	2.595E-02	0.000E+00	0.000E+00	5.75E+01	0.00E+00	0.00E+00	0.008
			1.570E+00	2.553E-17	1.202E-17	2.068E-02	2.681E-17	1.276E-16	1.18E+02	4.79E-14	3.10E-13	0.016
		101	1.533E+00	2.553E-17	1.202E-17	2.068E-02	0.000E+00	0.000E+00	1.15E+02	0.00E+00	0.00E+00	0.016
140	2	301	-1.607E+00	-2.553E-17	-1.202E-17	-2.068E-02	0.000E+00	0.000E+00	1.21E+02	0.00E+00	0.00E+00	0.017
			7.270E-01	1.666E-17	-5.361E-18	-2.595E-02	-6.011E-17	8.329E-17	5.47E+01	-1.07E-13	2.02E-13	0.008
		101	6.897E-01	1.666E-17	-5.361E-18	-2.595E-02	0.000E+00	0.000E+00	5.19E+01	0.00E+00	0.00E+00	0.007
140	3	301	-1.052E+00	-1.668E-17	3.981E-17	3.562E-02	0.000E+00	0.000E+00	7.91E+01	0.00E+00	0.00E+00	0.011
			1.282E+00	2.550E-17	4.647E-17	3.035E-02	1.991E-16	1.275E-16	9.64E+01	3.55E-13	3.10E-13	0.013
		101	1.245E+00	2.550E-17	4.647E-17	3.035E-02	0.000E+00	0.000E+00	9.36E+01	0.00E+00	0.00E+00	0.013
140	4	301	-1.320E+00	-2.550E-17	-4.647E-17	-3.035E-02	0.000E+00	0.000E+00	9.92E+01	0.00E+00	0.00E+00	0.014
			1.014E+00	1.668E-17	-3.981E-17	-3.562E-02	-2.324E-16	8.342E-17	7.63E+01	-4.15E-13	2.03E-13	0.011
		101	9.771E-01	1.668E-17	-3.981E-17	-3.562E-02	0.000E+00	0.000E+00	7.35E+01	0.00E+00	0.00E+00	0.010
141	1	303	-1.094E+00	-1.003E-17	1.002E-17	1.781E-02	0.000E+00	0.000E+00	8.22E+01	0.00E+00	0.00E+00	0.011
			1.532E+00	1.547E-17	2.738E-17	1.455E-02	5.011E-17	7.735E-17	1.15E+02	8.95E-14	1.88E-13	0.016
		103	1.495E+00	1.547E-17	2.738E-17	1.455E-02	0.000E+00	0.000E+00	1.12E+02	0.00E+00	0.00E+00	0.016
141	2	303	-1.569E+00	-1.547E-17	-2.738E-17	-1.455E-02	0.000E+00	0.000E+00	1.18E+02	0.00E+00	0.00E+00	0.016
			1.057E+00	1.003E-17	-1.002E-17	-1.781E-02	-1.369E-16	5.015E-17	7.94E+01	-2.45E-13	1.22E-13	0.011
		103	1.019E+00	1.003E-17	-1.002E-17	-1.781E-02	0.000E+00	0.000E+00	7.66E+01	0.00E+00	0.00E+00	0.011
141	3	303	-1.063E+00	-1.001E-17	4.745E-17	2.152E-02	0.000E+00	0.000E+00	7.99E+01	0.00E+00	0.00E+00	0.011
			1.563E+00	1.549E-17	6.481E-17	1.826E-02	2.372E-16	7.744E-17	1.18E+02	4.24E-13	1.88E-13	0.016
		103	1.526E+00	1.549E-17	6.481E-17	1.826E-02	0.000E+00	0.000E+00	1.15E+02	0.00E+00	0.00E+00	0.016
141	4	303	-1.601E+00	-1.549E-17	-6.481E-17	-1.826E-02	0.000E+00	0.000E+00	1.20E+02	0.00E+00	0.00E+00	0.017
			1.025E+00	1.001E-17	-4.745E-17	-2.152E-02	-3.241E-16	5.006E-17	7.71E+01	-5.79E-13	1.22E-13	0.011
		103	9.880E-01	1.001E-17	-4.745E-17	-2.152E-02	0.000E+00	0.000E+00	7.43E+01	0.00E+00	0.00E+00	0.010
142	1	305	-1.133E+00	5.664E-19	1.189E-17	1.035E-02	0.000E+00	0.000E+00	8.52E+01	0.00E+00	0.00E+00	0.012
			1.607E+00	5.664E-19	3.315E-17	1.035E-02	5.945E-17	2.832E-18	1.21E+02	1.06E-13	6.88E-15	0.017
		105	1.570E+00	5.664E-19	3.315E-17	1.035E-02	0.000E+00	0.000E+00	1.18E+02	0.00E+00	0.00E+00	0.016

142	2	305	-1.644E+00	-5.664E-19	-3.315E-17	-1.035E-02	0.000E+00	0.000E+00	1.24E+02	0.00E+00	0.00E+00	0.017
			1.096E+00	-5.664E-19	-1.189E-17	-1.035E-02	-1.658E-16	-2.832E-18	8.24E+01	-2.96E-13	-6.88E-15	0.011
		105	1.059E+00	-5.664E-19	-1.189E-17	-1.035E-02	0.000E+00	0.000E+00	7.96E+01	0.00E+00	0.00E+00	0.011
142	3	305	-1.057E+00	1.070E-19	5.061E-17	2.158E-03	0.000E+00	0.000E+00	7.95E+01	0.00E+00	0.00E+00	0.011
			1.683E+00	1.070E-19	7.188E-17	2.158E-03	2.531E-16	5.348E-19	1.27E+02	4.52E-13	1.30E-15	0.018
		105	1.645E+00	1.070E-19	7.188E-17	2.158E-03	0.000E+00	0.000E+00	1.24E+02	0.00E+00	0.00E+00	0.017
142	4	305	-1.720E+00	-1.070E-19	-7.188E-17	-2.158E-03	0.000E+00	0.000E+00	1.29E+02	0.00E+00	0.00E+00	0.018
			1.020E+00	-1.070E-19	-5.061E-17	-2.158E-03	-3.594E-16	-5.348E-19	7.67E+01	-6.42E-13	-1.30E-15	0.011
		105	9.829E-01	-1.070E-19	-5.061E-17	-2.158E-03	0.000E+00	0.000E+00	7.39E+01	0.00E+00	0.00E+00	0.010
143	1	307	-1.141E+00	1.548E-17	1.002E-17	1.436E-02	0.000E+00	0.000E+00	8.58E+01	0.00E+00	0.00E+00	0.012
			1.485E+00	-1.002E-17	2.738E-17	1.763E-02	5.010E-17	-5.010E-17	1.12E+02	8.95E-14	-1.22E-13	0.016
		107	1.447E+00	-1.002E-17	2.738E-17	1.763E-02	0.000E+00	0.000E+00	1.09E+02	0.00E+00	0.00E+00	0.015
143	2	307	-1.522E+00	1.002E-17	-2.738E-17	-1.763E-02	0.000E+00	0.000E+00	1.14E+02	0.00E+00	0.00E+00	0.016
			1.104E+00	-1.548E-17	-1.002E-17	-1.436E-02	-1.369E-16	-7.741E-17	8.30E+01	-2.44E-13	-1.88E-13	0.012
		107	1.067E+00	-1.548E-17	-1.002E-17	-1.436E-02	0.000E+00	0.000E+00	8.02E+01	0.00E+00	0.00E+00	0.011
143	3	307	-1.065E+00	1.547E-17	4.747E-17	1.717E-02	0.000E+00	0.000E+00	8.01E+01	0.00E+00	0.00E+00	0.011
			1.561E+00	-1.003E-17	6.484E-17	2.044E-02	2.374E-16	-5.015E-17	1.17E+02	4.24E-13	-1.22E-13	0.016
		107	1.523E+00	-1.003E-17	6.484E-17	2.044E-02	0.000E+00	0.000E+00	1.15E+02	0.00E+00	0.00E+00	0.016
143	4	307	-1.598E+00	1.003E-17	-6.484E-17	-2.044E-02	0.000E+00	0.000E+00	1.20E+02	0.00E+00	0.00E+00	0.017
			1.028E+00	-1.547E-17	-4.747E-17	-1.717E-02	-3.242E-16	-7.736E-17	7.73E+01	-5.79E-13	-1.88E-13	0.011
		107	9.906E-01	-1.547E-17	-4.747E-17	-1.717E-02	0.000E+00	0.000E+00	7.45E+01	0.00E+00	0.00E+00	0.010
144	1	309	-1.019E+00	2.568E-17	5.632E-18	2.004E-02	0.000E+00	0.000E+00	7.66E+01	0.00E+00	0.00E+00	0.011
			1.315E+00	-1.651E-17	1.229E-17	2.530E-02	2.816E-17	-8.255E-17	9.89E+01	5.03E-14	-2.00E-13	0.014
		109	1.278E+00	-1.651E-17	1.229E-17	2.530E-02	0.000E+00	0.000E+00	9.61E+01	0.00E+00	0.00E+00	0.013
144	2	309	-1.353E+00	1.651E-17	-1.229E-17	-2.530E-02	0.000E+00	0.000E+00	1.02E+02	0.00E+00	0.00E+00	0.014
			9.815E-01	-2.568E-17	-5.632E-18	-2.004E-02	-6.146E-17	-1.284E-16	7.38E+01	-1.10E-13	-3.12E-13	0.010
		109	9.442E-01	-2.568E-17	-5.632E-18	-2.004E-02	0.000E+00	0.000E+00	7.10E+01	0.00E+00	0.00E+00	0.010
144	3	309	-1.088E+00	2.565E-17	3.977E-17	3.012E-02	0.000E+00	0.000E+00	8.18E+01	0.00E+00	0.00E+00	0.011
			1.246E+00	-1.653E-17	4.643E-17	3.539E-02	1.989E-16	-8.267E-17	9.37E+01	3.55E-13	-2.01E-13	0.013
		109	1.209E+00	-1.653E-17	4.643E-17	3.539E-02	0.000E+00	0.000E+00	9.09E+01	0.00E+00	0.00E+00	0.013
144	4	309	-1.284E+00	1.653E-17	-4.643E-17	-3.539E-02	0.000E+00	0.000E+00	9.65E+01	0.00E+00	0.00E+00	0.013
			1.050E+00	-2.565E-17	-3.977E-17	-3.012E-02	-2.322E-16	-1.283E-16	7.90E+01	-4.15E-13	-3.12E-13	0.011
		109	1.013E+00	-2.565E-17	-3.977E-17	-3.012E-02	0.000E+00	0.000E+00	7.62E+01	0.00E+00	0.00E+00	0.011
150	1	321	7.155E-02	-1.588E-17	5.342E-18	2.475E-02	0.000E+00	0.000E+00	-5.38E+00	0.00E+00	0.00E+00	0.001
			6.552E-01	2.079E-17	1.203E-17	1.978E-02	2.671E-17	1.040E-16	4.93E+01	4.77E-14	2.52E-13	0.007
		121	6.179E-01	2.079E-17	1.203E-17	1.978E-02	0.000E+00	0.000E+00	4.65E+01	0.00E+00	0.00E+00	0.006
150	2	321	-6.924E-01	-2.079E-17	-1.203E-17	-1.978E-02	0.000E+00	0.000E+00	5.21E+01	0.00E+00	0.00E+00	0.007
			-1.088E-01	1.588E-17	-5.342E-18	-2.475E-02	-6.017E-17	7.939E-17	-8.18E+00	-1.07E-13	1.93E-13	0.001
		121	-1.461E-01	1.588E-17	-5.342E-18	-2.475E-02	0.000E+00	0.000E+00	-1.10E+01	0.00E+00	0.00E+00	0.002
150	3	321	-2.217E-01	-1.414E-17	3.979E-17	3.581E-02	0.000E+00	0.000E+00	1.67E+01	0.00E+00	0.00E+00	0.002
			3.619E-01	2.253E-17	4.648E-17	3.083E-02	1.989E-16	1.126E-16	2.72E+01	3.55E-13	2.74E-13	0.004
		121	3.247E-01	2.253E-17	4.648E-17	3.083E-02	0.000E+00	0.000E+00	2.44E+01	0.00E+00	0.00E+00	0.003

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150	4	321	-3.992E-01	-2.253E-17	-4.648E-17	-3.083E-02	0.000E+00	0.000E+00	3.00E+01	0.00E+00	0.00E+00	0.004
			1.844E-01	1.414E-17	-3.979E-17	-3.581E-02	-2.324E-16	7.069E-17	1.39E+01	-4.15E-13	1.72E-13	0.002
		121	1.471E-01	1.414E-17	-3.979E-17	-3.581E-02	0.000E+00	0.000E+00	1.11E+01	0.00E+00	0.00E+00	0.002
151	1	323	-3.541E-01	-9.547E-18	9.980E-18	1.478E-02	0.000E+00	0.000E+00	2.66E+01	0.00E+00	0.00E+00	0.004
			5.314E-01	1.263E-17	2.741E-17	1.233E-02	4.990E-17	6.313E-17	4.00E+01	8.91E-14	1.53E-13	0.006
		123	4.942E-01	1.263E-17	2.741E-17	1.233E-02	0.000E+00	0.000E+00	3.72E+01	0.00E+00	0.00E+00	0.005
151	2	323	-5.687E-01	-1.263E-17	-2.741E-17	-1.233E-02	0.000E+00	0.000E+00	4.28E+01	0.00E+00	0.00E+00	0.006
			3.169E-01	9.547E-18	-9.980E-18	-1.478E-02	-1.371E-16	4.774E-17	2.38E+01	-2.45E-13	1.16E-13	0.003
		123	2.796E-01	9.547E-18	-9.980E-18	-1.478E-02	0.000E+00	0.000E+00	2.10E+01	0.00E+00	0.00E+00	0.003
151	3	323	-2.121E-01	-8.518E-18	4.740E-17	2.063E-02	0.000E+00	0.000E+00	1.59E+01	0.00E+00	0.00E+00	0.002
			6.735E-01	1.366E-17	6.483E-17	1.818E-02	2.370E-16	6.828E-17	5.06E+01	4.23E-13	1.66E-13	0.007
		123	6.362E-01	1.366E-17	6.483E-17	1.818E-02	0.000E+00	0.000E+00	4.78E+01	0.00E+00	0.00E+00	0.007
151	4	323	-7.108E-01	-1.366E-17	-6.483E-17	-1.818E-02	0.000E+00	0.000E+00	5.34E+01	0.00E+00	0.00E+00	0.007
			1.748E-01	8.518E-18	-4.740E-17	-2.063E-02	-3.242E-16	4.259E-17	1.31E+01	-5.79E-13	1.03E-13	0.002
		123	1.375E-01	8.518E-18	-4.740E-17	-2.063E-02	0.000E+00	0.000E+00	1.03E+01	0.00E+00	0.00E+00	0.001
152	1	325	-4.005E-01	3.852E-19	1.184E-17	4.527E-03	0.000E+00	0.000E+00	3.01E+01	0.00E+00	0.00E+00	0.004
			5.866E-01	3.852E-19	3.318E-17	4.527E-03	5.920E-17	1.926E-18	4.41E+01	1.06E-13	4.68E-15	0.006
		125	5.493E-01	3.852E-19	3.318E-17	4.527E-03	0.000E+00	0.000E+00	4.13E+01	0.00E+00	0.00E+00	0.006
152	2	325	-6.239E-01	-3.852E-19	-3.318E-17	-4.527E-03	0.000E+00	0.000E+00	4.69E+01	0.00E+00	0.00E+00	0.007
			3.632E-01	-3.852E-19	-1.184E-17	-4.527E-03	-1.659E-16	-1.926E-18	2.73E+01	-2.96E-13	-4.68E-15	0.004
		125	3.260E-01	-3.852E-19	-1.184E-17	-4.527E-03	0.000E+00	0.000E+00	2.45E+01	0.00E+00	0.00E+00	0.003
152	3	325	-2.038E-01	6.866E-20	5.056E-17	7.891E-04	0.000E+00	0.000E+00	1.53E+01	0.00E+00	0.00E+00	0.002
			7.833E-01	6.866E-20	7.190E-17	7.891E-04	2.528E-16	3.433E-19	5.89E+01	4.51E-13	8.34E-16	0.008
		125	7.460E-01	6.866E-20	7.190E-17	7.891E-04	0.000E+00	0.000E+00	5.61E+01	0.00E+00	0.00E+00	0.008
152	4	325	-8.205E-01	-6.866E-20	-7.190E-17	-7.891E-04	0.000E+00	0.000E+00	6.17E+01	0.00E+00	0.00E+00	0.009
			1.666E-01	-6.866E-20	-5.056E-17	-7.891E-04	-3.595E-16	-3.433E-19	1.25E+01	-6.42E-13	-8.34E-16	0.002
		125	1.293E-01	-6.866E-20	-5.056E-17	-7.891E-04	0.000E+00	0.000E+00	9.72E+00	0.00E+00	0.00E+00	0.001
153	1	327	-3.745E-01	1.261E-17	9.980E-18	1.256E-02	0.000E+00	0.000E+00	2.82E+01	0.00E+00	0.00E+00	0.004
			5.111E-01	-9.566E-18	2.741E-17	1.501E-02	4.990E-17	-4.783E-17	3.84E+01	8.91E-14	-1.16E-13	0.005
		127	4.738E-01	-9.566E-18	2.741E-17	1.501E-02	0.000E+00	0.000E+00	3.56E+01	0.00E+00	0.00E+00	0.005
153	2	327	-5.483E-01	9.566E-18	-2.741E-17	-1.501E-02	0.000E+00	0.000E+00	4.12E+01	0.00E+00	0.00E+00	0.006
			3.372E-01	-1.261E-17	-9.980E-18	-1.256E-02	-1.371E-16	-6.303E-17	2.54E+01	-2.45E-13	-1.53E-13	0.004
		127	2.999E-01	-1.261E-17	-9.980E-18	-1.256E-02	0.000E+00	0.000E+00	2.26E+01	0.00E+00	0.00E+00	0.003
153	3	327	-2.096E-01	1.364E-17	4.742E-17	1.805E-02	0.000E+00	0.000E+00	1.58E+01	0.00E+00	0.00E+00	0.002
			6.760E-01	-8.531E-18	6.485E-17	2.050E-02	2.371E-16	-4.265E-17	5.08E+01	4.23E-13	-1.04E-13	0.007
		127	6.387E-01	-8.531E-18	6.485E-17	2.050E-02	0.000E+00	0.000E+00	4.80E+01	0.00E+00	0.00E+00	0.007
153	4	327	-7.133E-01	8.531E-18	-6.485E-17	-2.050E-02	0.000E+00	0.000E+00	5.36E+01	0.00E+00	0.00E+00	0.007
			1.723E-01	-1.364E-17	-4.742E-17	-1.805E-02	-3.243E-16	-6.821E-17	1.30E+01	-5.79E-13	-1.66E-13	0.002
		127	1.350E-01	-1.364E-17	-4.742E-17	-1.805E-02	0.000E+00	0.000E+00	1.02E+01	0.00E+00	0.00E+00	0.001
154	1	329	-5.366E-02	2.078E-17	5.616E-18	1.970E-02	0.000E+00	0.000E+00	4.03E+00	0.00E+00	0.00E+00	0.001
			5.299E-01	-1.589E-17	1.231E-17	2.467E-02	2.808E-17	-7.946E-17	3.98E+01	5.01E-14	-1.93E-13	0.006
		129	4.927E-01	-1.589E-17	1.231E-17	2.467E-02	0.000E+00	0.000E+00	3.70E+01	0.00E+00	0.00E+00	0.005
154	2	329	-5.672E-01	1.589E-17	-1.231E-17	-2.467E-02	0.000E+00	0.000E+00	4.26E+01	0.00E+00	0.00E+00	0.006

			1.639E-02	-2.078E-17	-5.616E-18	-1.970E-02	-6.154E-17	-1.039E-16	1.23E+00	-1.10E-13	-2.52E-13	0.000
		129	-2.089E-02	-2.078E-17	-5.616E-18	-1.970E-02	0.000E+00	0.000E+00	-1.57E+00	0.00E+00	0.00E+00	0.000
154	3	329	-1.950E-01	2.252E-17	3.975E-17	3.102E-02	0.000E+00	0.000E+00	1.47E+01	0.00E+00	0.00E+00	0.002
			3.886E-01	-1.415E-17	4.644E-17	3.599E-02	1.987E-16	-7.076E-17	2.92E+01	3.55E-13	-1.72E-13	0.004
		129	3.513E-01	-1.415E-17	4.644E-17	3.599E-02	0.000E+00	0.000E+00	2.64E+01	0.00E+00	0.00E+00	0.004
154	4	329	-4.259E-01	1.415E-17	-4.644E-17	-3.599E-02	0.000E+00	0.000E+00	3.20E+01	0.00E+00	0.00E+00	0.004
			1.577E-01	-2.252E-17	-3.975E-17	-3.102E-02	-2.322E-16	-1.126E-16	1.19E+01	-4.15E-13	-2.73E-13	0.002
		129	1.204E-01	-2.252E-17	-3.975E-17	-3.102E-02	0.000E+00	0.000E+00	9.06E+00	0.00E+00	0.00E+00	0.001
160	1	200	1.035E+01	8.987E-01	-4.549E-01	1.600E-01	5.470E+00	2.932E+00	-3.36E+02	9.77E+02	1.63E+03	0.409
			-8.101E+00	1.170E+00	2.526E+00	1.339E-01	8.747E-01	-3.681E-02	-2.63E+02	1.56E+02	-2.04E+01	0.061
		100	-8.144E+00	1.170E+00	2.526E+00	1.339E-01	7.165E+00	1.563E+00	-2.64E+02	1.28E+03	8.68E+02	0.335
160	2	200	8.058E+00	-1.170E+00	-2.526E+00	-1.339E-01	6.551E-01	-2.885E+00	-2.62E+02	1.17E+02	-1.60E+03	0.275
			-1.040E+01	-8.987E-01	4.549E-01	-1.600E-01	4.533E-01	-6.885E-01	-3.38E+02	8.09E+01	-3.82E+02	0.111
		100	-1.044E+01	-8.987E-01	4.549E-01	-1.600E-01	1.615E+00	-2.967E+00	-3.39E+02	2.88E+02	-1.65E+03	0.316
160	3	200	2.076E+01	5.892E-02	6.214E+00	5.111E-02	1.987E+01	5.418E-01	-6.74E+02	3.55E+03	3.01E+02	0.628
			2.307E+00	3.304E-01	9.195E+00	2.502E-02	3.129E+00	-3.088E-01	7.49E+01	5.59E+02	-1.72E+02	0.112
		100	2.264E+00	3.304E-01	9.195E+00	2.502E-02	2.611E+01	-2.431E-01	7.35E+01	4.66E+03	-1.35E+02	0.676
160	4	200	-2.350E+00	-3.304E-01	-9.195E+00	-2.502E-02	-1.375E+01	-4.953E-01	7.63E+01	-2.45E+03	-2.75E+02	0.390
			-2.080E+01	-5.892E-02	-6.214E+00	-5.111E-02	-1.801E+00	-4.165E-01	-6.75E+02	-3.22E+02	-2.31E+02	0.171
		100	-2.085E+01	-5.892E-02	-6.214E+00	-5.111E-02	-1.733E+01	-1.161E+00	-6.77E+02	-3.09E+03	-6.45E+02	0.613
161	1	300	5.115E+00	9.099E-01	-9.463E-01	1.587E-01	6.772E+00	1.659E+00	-1.66E+02	1.21E+03	9.21E+02	0.319
			-4.294E+00	1.180E+00	2.234E+00	1.366E-01	-4.609E-01	6.211E-01	-1.39E+02	-8.23E+01	3.45E+02	0.079
		200	-4.337E+00	1.180E+00	2.234E+00	1.366E-01	4.413E+00	2.892E+00	-1.41E+02	7.88E+02	1.61E+03	0.352
161	2	300	4.251E+00	-1.180E+00	-2.234E+00	-1.366E-01	2.855E+00	-2.982E+00	-1.38E+02	5.10E+02	-1.66E+03	0.320
			-5.158E+00	-9.099E-01	9.463E-01	-1.587E-01	-1.215E+00	2.569E-02	-1.67E+02	-2.17E+02	1.43E+01	0.055
		200	-5.202E+00	-9.099E-01	9.463E-01	-1.587E-01	1.861E+00	-2.922E+00	-1.69E+02	3.32E+02	-1.62E+03	0.295
161	3	300	9.172E+00	4.546E-02	5.516E+00	4.813E-02	2.517E+01	-2.786E-01	-2.98E+02	4.50E+03	-1.55E+02	0.687
			-2.375E-01	3.160E-01	8.696E+00	2.608E-02	1.768E+00	4.024E-01	-7.71E+00	3.16E+02	2.24E+02	0.076
		200	-2.807E-01	3.160E-01	8.696E+00	2.608E-02	1.831E+01	5.088E-01	-9.11E+00	3.27E+03	2.83E+02	0.495
161	4	300	1.943E-01	-3.160E-01	-8.696E+00	-2.608E-02	-1.555E+01	-1.045E+00	-6.31E+00	-2.78E+03	-5.80E+02	0.467
			-9.215E+00	-4.546E-02	-5.516E+00	-4.813E-02	-3.444E+00	2.444E-01	-2.99E+02	-6.15E+02	1.36E+02	0.146
		200	-9.258E+00	-4.546E-02	-5.516E+00	-4.813E-02	-1.204E+01	-5.383E-01	-3.01E+02	-2.15E+03	-2.99E+02	0.382
162	1	202	1.052E+01	1.018E+00	6.452E-01	3.561E-02	3.226E+00	5.091E+00	-3.41E+02	1.79E+03	9.09E+02	0.423
			-7.786E+00	1.017E+00	6.452E-01	1.154E-02	1.613E+00	2.542E+00	-2.53E+02	8.96E+02	4.54E+02	0.223
		102	-7.829E+00	1.017E+00	6.452E-01	1.154E-02	0.000E+00	0.000E+00	-2.54E+02	0.00E+00	0.00E+00	0.035
162	2	202	7.742E+00	-1.017E+00	-6.452E-01	-1.154E-02	-3.226E+00	-5.083E+00	-2.51E+02	-1.79E+03	-9.08E+02	0.410
			-1.056E+01	-1.018E+00	-6.452E-01	-3.561E-02	-1.613E+00	-2.545E+00	-3.43E+02	-8.96E+02	-4.55E+02	0.235
		102	-1.060E+01	-1.018E+00	-6.452E-01	-3.561E-02	0.000E+00	0.000E+00	-3.44E+02	0.00E+00	0.00E+00	0.048
162	3	202	9.711E+00	1.818E-01	6.291E-01	3.837E-02	3.145E+00	9.088E-01	-3.15E+02	1.75E+03	1.62E+02	0.309
			-8.592E+00	1.803E-01	6.290E-01	1.430E-02	1.573E+00	4.507E-01	-2.79E+02	8.74E+02	8.05E+01	0.171
		102	-8.635E+00	1.803E-01	6.290E-01	1.430E-02	0.000E+00	0.000E+00	-2.80E+02	0.00E+00	0.00E+00	0.039
162	4	202	8.549E+00	-1.803E-01	-6.290E-01	-1.430E-02	-3.145E+00	-9.014E-01	-2.78E+02	-1.75E+03	-1.61E+02	0.304
			-9.754E+00	-1.818E-01	-6.291E-01	-3.837E-02	-1.573E+00	-4.544E-01	-3.17E+02	-8.74E+02	-8.11E+01	0.177

		102	-9.797E+00	-1.818E-01	-6.291E-01	-3.837E-02	0.000E+00	0.000E+00	-3.18E+02	0.00E+00	0.00E+00	0.044
163	1	302	5.365E+00	1.018E+00	6.452E-01	3.561E-02	0.000E+00	0.000E+00	-1.74E+02	0.00E+00	0.00E+00	0.024
			-3.922E+00	1.017E+00	6.452E-01	1.154E-02	1.613E+00	2.545E+00	-1.27E+02	8.96E+02	4.54E+02	0.205
		202	-3.965E+00	1.017E+00	6.452E-01	1.154E-02	3.226E+00	5.090E+00	-1.29E+02	1.79E+03	9.09E+02	0.393
163	2	302	3.879E+00	-1.017E+00	-6.452E-01	-1.154E-02	0.000E+00	0.000E+00	-1.26E+02	0.00E+00	0.00E+00	0.017
			-5.408E+00	-1.018E+00	-6.452E-01	-3.561E-02	-1.613E+00	-2.541E+00	-1.76E+02	-8.96E+02	-4.54E+02	0.212
		202	-5.451E+00	-1.018E+00	-6.452E-01	-3.561E-02	-3.226E+00	-5.083E+00	-1.77E+02	-1.79E+03	-9.08E+02	0.400
163	3	302	4.956E+00	1.826E-01	6.290E-01	3.837E-02	0.000E+00	0.000E+00	-1.61E+02	0.00E+00	0.00E+00	0.022
			-4.331E+00	1.811E-01	6.291E-01	1.430E-02	1.573E+00	4.565E-01	-1.41E+02	8.74E+02	8.15E+01	0.152
		202	-4.374E+00	1.811E-01	6.291E-01	1.430E-02	3.145E+00	9.131E-01	-1.42E+02	1.75E+03	1.63E+02	0.285
163	4	302	4.288E+00	-1.811E-01	-6.291E-01	-1.430E-02	0.000E+00	0.000E+00	-1.39E+02	0.00E+00	0.00E+00	0.019
			-4.999E+00	-1.826E-01	-6.290E-01	-3.837E-02	-1.573E+00	-4.528E-01	-1.62E+02	-8.74E+02	-8.09E+01	0.155
		202	-5.042E+00	-1.826E-01	-6.290E-01	-3.837E-02	-3.145E+00	-9.057E-01	-1.64E+02	-1.75E+03	-1.62E+02	0.288
164	1	204	1.082E+01	9.589E-01	4.920E-01	1.891E-02	2.460E+00	4.795E+00	-3.51E+02	1.37E+03	8.56E+02	0.358
			-7.238E+00	9.584E-01	4.920E-01	1.013E-02	1.230E+00	2.396E+00	-2.35E+02	6.83E+02	4.28E+02	0.187
		104	-7.281E+00	9.584E-01	4.920E-01	1.013E-02	0.000E+00	0.000E+00	-2.36E+02	0.00E+00	0.00E+00	0.033
164	2	204	7.195E+00	-9.584E-01	-4.920E-01	-1.013E-02	-2.460E+00	-4.792E+00	-2.34E+02	-1.37E+03	-8.56E+02	0.341
			-1.086E+01	-9.589E-01	-4.920E-01	-1.891E-02	-1.230E+00	-2.397E+00	-3.53E+02	-6.83E+02	-4.28E+02	0.203
		104	-1.090E+01	-9.589E-01	-4.920E-01	-1.891E-02	0.000E+00	0.000E+00	-3.54E+02	0.00E+00	0.00E+00	0.049
164	3	204	9.936E+00	1.684E-01	7.976E-01	1.422E-02	3.988E+00	8.418E-01	-3.23E+02	2.22E+03	1.50E+02	0.373
			-8.120E+00	1.678E-01	7.976E-01	5.442E-03	1.994E+00	4.195E-01	-2.64E+02	1.11E+03	7.49E+01	0.201
		104	-8.163E+00	1.678E-01	7.976E-01	5.442E-03	0.000E+00	0.000E+00	-2.65E+02	0.00E+00	0.00E+00	0.037
164	4	204	8.077E+00	-1.678E-01	-7.976E-01	-5.442E-03	-3.988E+00	-8.390E-01	-2.62E+02	-2.22E+03	-1.50E+02	0.365
			-9.979E+00	-1.684E-01	-7.976E-01	-1.422E-02	-1.994E+00	-4.209E-01	-3.24E+02	-1.11E+03	-7.52E+01	0.209
		104	-1.002E+01	-1.684E-01	-7.976E-01	-1.422E-02	0.000E+00	0.000E+00	-3.25E+02	0.00E+00	0.00E+00	0.045
165	1	304	5.429E+00	9.593E-01	4.920E-01	1.891E-02	0.000E+00	0.000E+00	-1.76E+02	0.00E+00	0.00E+00	0.024
			-3.610E+00	9.587E-01	4.920E-01	1.013E-02	1.230E+00	2.398E+00	-1.17E+02	6.83E+02	4.28E+02	0.171
		204	-3.653E+00	9.587E-01	4.920E-01	1.013E-02	2.460E+00	4.796E+00	-1.19E+02	1.37E+03	8.56E+02	0.325
165	2	304	3.567E+00	-9.587E-01	-4.920E-01	-1.013E-02	0.000E+00	0.000E+00	-1.16E+02	0.00E+00	0.00E+00	0.016
			-5.473E+00	-9.593E-01	-4.920E-01	-1.891E-02	-1.230E+00	-2.397E+00	-1.78E+02	-6.83E+02	-4.28E+02	0.179
		204	-5.516E+00	-9.593E-01	-4.920E-01	-1.891E-02	-2.460E+00	-4.794E+00	-1.79E+02	-1.37E+03	-8.56E+02	0.334
165	3	304	5.036E+00	1.688E-01	7.976E-01	1.422E-02	0.000E+00	0.000E+00	-1.64E+02	0.00E+00	0.00E+00	0.023
			-4.003E+00	1.682E-01	7.976E-01	5.442E-03	1.994E+00	4.220E-01	-1.30E+02	1.11E+03	7.54E+01	0.182
		204	-4.047E+00	1.682E-01	7.976E-01	5.442E-03	3.988E+00	8.440E-01	-1.31E+02	2.22E+03	1.51E+02	0.347
165	4	304	3.960E+00	-1.682E-01	-7.976E-01	-5.442E-03	0.000E+00	0.000E+00	-1.29E+02	0.00E+00	0.00E+00	0.018
			-5.079E+00	-1.688E-01	-7.976E-01	-1.422E-02	-1.994E+00	-4.206E-01	-1.65E+02	-1.11E+03	-7.51E+01	0.187
		204	-5.123E+00	-1.688E-01	-7.976E-01	-1.422E-02	-3.988E+00	-8.412E-01	-1.66E+02	-2.22E+03	-1.50E+02	0.352
166	1	206	1.058E+01	8.706E-01	3.888E-01	9.662E-03	1.944E+00	4.353E+00	-3.43E+02	1.08E+03	7.77E+02	0.306
			-7.481E+00	8.712E-01	3.888E-01	1.844E-02	9.720E-01	2.178E+00	-2.43E+02	5.40E+02	3.89E+02	0.163
		106	-7.524E+00	8.712E-01	3.888E-01	1.844E-02	0.000E+00	0.000E+00	-2.44E+02	0.00E+00	0.00E+00	0.034
166	2	206	7.438E+00	-8.712E-01	-3.888E-01	-1.844E-02	-1.944E+00	-4.356E+00	-2.41E+02	-1.08E+03	-7.78E+02	0.292
			-1.062E+01	-8.706E-01	-3.888E-01	-9.662E-03	-9.719E-01	-2.177E+00	-3.45E+02	-5.40E+02	-3.89E+02	0.177
		106	-1.066E+01	-8.706E-01	-3.888E-01	-9.662E-03	0.000E+00	0.000E+00	-3.46E+02	0.00E+00	0.00E+00	0.048

166	3	206	9.934E+00	1.518E-01	8.024E-01	6.803E-03	4.012E+00	7.590E-01	-3.23E+02	2.23E+03	1.36E+02	0.373
			-8.122E+00	1.523E-01	8.024E-01	1.558E-02	2.006E+00	3.809E-01	-2.64E+02	1.11E+03	6.80E+01	0.201
		106	-8.165E+00	1.523E-01	8.024E-01	1.558E-02	0.000E+00	0.000E+00	-2.65E+02	0.00E+00	0.00E+00	0.037
166	4	206	8.078E+00	-1.523E-01	-8.024E-01	-1.558E-02	-4.012E+00	-7.617E-01	-2.62E+02	-2.23E+03	-1.36E+02	0.365
			-9.978E+00	-1.518E-01	-8.024E-01	-6.803E-03	-2.006E+00	-3.795E-01	-3.24E+02	-1.11E+03	-6.78E+01	0.209
		106	-1.002E+01	-1.518E-01	-8.024E-01	-6.803E-03	0.000E+00	0.000E+00	-3.25E+02	0.00E+00	0.00E+00	0.045
167	1	306	5.305E+00	8.711E-01	3.888E-01	9.662E-03	0.000E+00	0.000E+00	-1.72E+02	0.00E+00	0.00E+00	0.024
			-3.735E+00	8.717E-01	3.888E-01	1.844E-02	9.720E-01	2.178E+00	-1.21E+02	5.40E+02	3.89E+02	0.146
		206	-3.778E+00	8.717E-01	3.888E-01	1.844E-02	1.944E+00	4.356E+00	-1.23E+02	1.08E+03	7.78E+02	0.275
167	2	306	3.692E+00	-8.717E-01	-3.888E-01	-1.844E-02	0.000E+00	0.000E+00	-1.20E+02	0.00E+00	0.00E+00	0.017
			-5.348E+00	-8.711E-01	-3.888E-01	-9.662E-03	-9.719E-01	-2.179E+00	-1.74E+02	-5.40E+02	-3.89E+02	0.153
		206	-5.391E+00	-8.711E-01	-3.888E-01	-9.662E-03	-1.944E+00	-4.358E+00	-1.75E+02	-1.08E+03	-7.78E+02	0.282
167	3	306	5.040E+00	1.514E-01	8.024E-01	6.803E-03	0.000E+00	0.000E+00	-1.64E+02	0.00E+00	0.00E+00	0.023
			-4.000E+00	1.520E-01	8.024E-01	1.558E-02	2.006E+00	3.786E-01	-1.30E+02	1.11E+03	6.76E+01	0.182
		206	-4.043E+00	1.520E-01	8.024E-01	1.558E-02	4.012E+00	7.572E-01	-1.31E+02	2.23E+03	1.35E+02	0.347
167	4	306	3.957E+00	-1.520E-01	-8.024E-01	-1.558E-02	0.000E+00	0.000E+00	-1.28E+02	0.00E+00	0.00E+00	0.018
			-5.083E+00	-1.514E-01	-8.024E-01	-6.803E-03	-2.006E+00	-3.800E-01	-1.65E+02	-1.11E+03	-6.79E+01	0.187
		206	-5.126E+00	-1.514E-01	-8.024E-01	-6.803E-03	-4.012E+00	-7.600E-01	-1.66E+02	-2.23E+03	-1.36E+02	0.352
168	1	208	1.022E+01	7.629E-01	2.956E-01	1.081E-02	1.478E+00	3.815E+00	-3.32E+02	8.21E+02	6.81E+02	0.255
			-8.088E+00	7.644E-01	2.956E-01	3.488E-02	7.391E-01	1.911E+00	-2.63E+02	4.11E+02	3.41E+02	0.141
		108	-8.131E+00	7.644E-01	2.956E-01	3.488E-02	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
168	2	208	8.045E+00	-7.644E-01	-2.956E-01	-3.488E-02	-1.478E+00	-3.822E+00	-2.61E+02	-8.21E+02	-6.82E+02	0.245
			-1.026E+01	-7.629E-01	-2.956E-01	-1.081E-02	-7.391E-01	-1.907E+00	-3.33E+02	-4.11E+02	-3.41E+02	0.151
		108	-1.030E+01	-7.629E-01	-2.956E-01	-1.081E-02	0.000E+00	0.000E+00	-3.34E+02	0.00E+00	0.00E+00	0.046
168	3	208	9.722E+00	1.344E-01	6.218E-01	1.581E-02	3.109E+00	6.722E-01	-3.16E+02	1.73E+03	1.20E+02	0.300
			-8.581E+00	1.359E-01	6.217E-01	3.988E-02	1.554E+00	3.398E-01	-2.79E+02	8.64E+02	6.07E+01	0.167
		108	-8.624E+00	1.359E-01	6.217E-01	3.988E-02	0.000E+00	0.000E+00	-2.80E+02	0.00E+00	0.00E+00	0.039
168	4	208	8.538E+00	-1.359E-01	-6.217E-01	-3.988E-02	-3.109E+00	-6.796E-01	-2.77E+02	-1.73E+03	-1.21E+02	0.295
			-9.765E+00	-1.344E-01	-6.218E-01	-1.581E-02	-1.554E+00	-3.361E-01	-3.17E+02	-8.64E+02	-6.00E+01	0.172
		108	-9.808E+00	-1.344E-01	-6.218E-01	-1.581E-02	0.000E+00	0.000E+00	-3.18E+02	0.00E+00	0.00E+00	0.044
169	1	308	5.218E+00	7.630E-01	2.956E-01	1.081E-02	0.000E+00	0.000E+00	-1.69E+02	0.00E+00	0.00E+00	0.024
			-4.069E+00	7.644E-01	2.956E-01	3.488E-02	7.391E-01	1.907E+00	-1.32E+02	4.11E+02	3.41E+02	0.123
		208	-4.112E+00	7.644E-01	2.956E-01	3.488E-02	1.478E+00	3.815E+00	-1.34E+02	8.21E+02	6.81E+02	0.227
169	2	308	4.026E+00	-7.644E-01	-2.956E-01	-3.488E-02	0.000E+00	0.000E+00	-1.31E+02	0.00E+00	0.00E+00	0.018
			-5.261E+00	-7.630E-01	-2.956E-01	-1.081E-02	-7.391E-01	-1.911E+00	-1.71E+02	-4.11E+02	-3.41E+02	0.128
		208	-5.304E+00	-7.630E-01	-2.956E-01	-1.081E-02	-1.478E+00	-3.822E+00	-1.72E+02	-8.21E+02	-6.83E+02	0.233
169	3	308	4.978E+00	1.330E-01	6.217E-01	1.581E-02	0.000E+00	0.000E+00	-1.62E+02	0.00E+00	0.00E+00	0.022
			-4.309E+00	1.345E-01	6.218E-01	3.988E-02	1.554E+00	3.326E-01	-1.40E+02	8.64E+02	5.94E+01	0.148
		208	-4.352E+00	1.345E-01	6.218E-01	3.988E-02	3.109E+00	6.651E-01	-1.41E+02	1.73E+03	1.19E+02	0.276
169	4	308	4.266E+00	-1.345E-01	-6.218E-01	-3.988E-02	0.000E+00	0.000E+00	-1.39E+02	0.00E+00	0.00E+00	0.019
			-5.021E+00	-1.330E-01	-6.217E-01	-1.581E-02	-1.554E+00	-3.363E-01	-1.63E+02	-8.64E+02	-6.00E+01	0.151
		208	-5.064E+00	-1.330E-01	-6.217E-01	-1.581E-02	-3.109E+00	-6.725E-01	-1.64E+02	-1.73E+03	-1.20E+02	0.279

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170	1	210	1.019E+01	8.054E-01	-6.068E-01	9.215E-02	5.092E+00	1.857E+00	-3.31E+02	9.09E+02	1.03E+03	0.316
			-8.264E+00	5.339E-01	2.374E+00	1.182E-01	8.642E-01	5.746E-01	-2.68E+02	1.54E+02	3.19E+02	0.103
		110	-8.308E+00	5.339E-01	2.374E+00	1.182E-01	6.783E+00	2.172E+00	-2.70E+02	1.21E+03	1.21E+03	0.373
170	2	210	8.221E+00	-5.339E-01	-2.374E+00	-1.182E-01	1.033E+00	-1.904E+00	-2.67E+02	1.84E+02	-1.06E+03	0.210
			-1.023E+01	-8.054E-01	6.068E-01	-9.215E-02	4.638E-01	1.507E-01	-3.32E+02	8.28E+01	8.37E+01	0.069
		110	-1.028E+01	-8.054E-01	6.068E-01	-9.215E-02	1.998E+00	-7.676E-01	-3.34E+02	3.57E+02	-4.26E+02	0.155
170	3	210	2.076E+01	2.515E-01	6.206E+00	1.594E-02	1.986E+01	3.211E-01	-6.74E+02	3.55E+03	1.78E+02	0.611
			2.303E+00	-1.999E-02	9.187E+00	4.203E-02	3.124E+00	4.347E-01	7.48E+01	5.58E+02	2.42E+02	0.121
		110	2.260E+00	-1.999E-02	9.187E+00	4.203E-02	2.608E+01	9.455E-01	7.34E+01	4.66E+03	5.25E+02	0.730
170	4	210	-2.346E+00	1.999E-02	-9.187E+00	-4.203E-02	-1.373E+01	-3.676E-01	7.62E+01	-2.45E+03	-2.04E+02	0.380
			-2.080E+01	-2.515E-01	-6.206E+00	-1.594E-02	-1.796E+00	2.906E-01	-6.75E+02	-3.21E+02	1.61E+02	0.161
		110	-2.084E+01	-2.515E-01	-6.206E+00	-1.594E-02	-1.730E+01	4.585E-01	-6.77E+02	-3.09E+03	2.55E+02	0.558
171	1	310	5.024E+00	8.094E-01	-9.920E-01	9.620E-02	6.608E+00	2.159E+00	-1.63E+02	1.18E+03	1.20E+03	0.353
			-4.385E+00	5.389E-01	2.188E+00	1.182E-01	-5.194E-01	-1.275E-01	-1.42E+02	-9.27E+01	-7.09E+01	0.042
		210	-4.428E+00	5.389E-01	2.188E+00	1.182E-01	4.342E+00	1.890E+00	-1.44E+02	7.75E+02	1.05E+03	0.273
171	2	310	4.342E+00	-5.389E-01	-2.188E+00	-1.182E-01	3.018E+00	-8.358E-01	-1.41E+02	5.39E+02	-4.64E+02	0.159
			-5.068E+00	-8.094E-01	9.920E-01	-9.620E-02	-1.157E+00	-5.193E-01	-1.65E+02	-2.07E+02	-2.88E+02	0.092
		210	-5.111E+00	-8.094E-01	9.920E-01	-9.620E-02	1.932E+00	-1.860E+00	-1.66E+02	3.45E+02	-1.03E+03	0.214
171	3	310	9.178E+00	2.634E-01	5.505E+00	2.790E-02	2.514E+01	9.713E-01	-2.98E+02	4.49E+03	5.40E+02	0.740
			-2.310E-01	-7.106E-03	8.685E+00	4.995E-02	1.766E+00	-2.894E-01	-7.50E+00	3.15E+02	-1.61E+02	0.067
		210	-2.742E-01	-7.106E-03	8.685E+00	4.995E-02	1.828E+01	3.490E-01	-8.90E+00	3.27E+03	1.94E+02	0.482
171	4	310	1.878E-01	7.106E-03	-8.685E+00	-4.995E-02	-1.552E+01	3.519E-01	-6.10E+00	-2.77E+03	1.95E+02	0.413
			-9.221E+00	-2.634E-01	-5.505E+00	-2.790E-02	-3.442E+00	-3.574E-01	-2.99E+02	-6.15E+02	-1.99E+02	0.155
		210	-9.265E+00	-2.634E-01	-5.505E+00	-2.790E-02	-1.201E+01	-3.195E-01	-3.01E+02	-2.14E+03	-1.77E+02	0.364
180	1	220	1.039E+01	9.269E-01	2.517E+00	1.659E-01	-5.400E-01	2.929E+00	-3.37E+02	-9.64E+01	1.63E+03	0.286
			-7.808E+00	1.163E+00	-4.643E-01	1.387E-01	-5.945E-01	-2.143E-03	-2.54E+02	-1.06E+02	-1.19E+00	0.050
		120	-7.851E+00	1.163E+00	-4.643E-01	1.387E-01	-1.778E+00	1.705E+00	-2.55E+02	-3.17E+02	9.47E+02	0.211
180	2	220	7.765E+00	-1.163E+00	4.643E-01	-1.387E-01	-5.297E+00	-2.904E+00	-2.52E+02	-9.46E+02	-1.61E+03	0.390
			-1.043E+01	-9.269E-01	-2.517E+00	-1.659E-01	-1.021E+00	-6.131E-01	-3.39E+02	-1.82E+02	-3.41E+02	0.120
		120	-1.048E+01	-9.269E-01	-2.517E+00	-1.659E-01	-7.291E+00	-2.911E+00	-3.40E+02	-1.30E+03	-1.62E+03	0.453
180	3	220	2.064E+01	5.208E-02	9.147E+00	4.668E-02	1.379E+01	4.874E-01	-6.70E+02	2.46E+03	2.71E+02	0.473
			2.439E+00	2.882E-01	6.166E+00	1.955E-02	1.641E+00	-2.524E-01	7.92E+01	2.93E+02	-1.40E+02	0.071
		120	2.396E+00	2.882E-01	6.166E+00	1.955E-02	1.705E+01	-2.254E-01	7.78E+01	3.04E+03	-1.25E+02	0.451
180	4	220	-2.483E+00	-2.882E-01	-6.166E+00	-1.955E-02	-1.962E+01	-4.624E-01	8.06E+01	-3.50E+03	-2.57E+02	0.534
			-2.068E+01	-5.208E-02	-9.147E+00	-4.668E-02	-3.257E+00	-3.629E-01	-6.71E+02	-5.82E+02	-2.02E+02	0.202
		120	-2.072E+01	-5.208E-02	-9.147E+00	-4.668E-02	-2.612E+01	-9.802E-01	-6.73E+02	-4.66E+03	-5.45E+02	0.817
181	1	320	5.160E+00	9.227E-01	2.237E+00	1.541E-01	-2.837E+00	1.716E+00	-1.68E+02	-5.07E+02	9.53E+02	0.226
			-4.052E+00	1.160E+00	-9.431E-01	1.316E-01	1.189E+00	5.919E-01	-1.32E+02	2.12E+02	3.29E+02	0.093
		220	-4.095E+00	1.160E+00	-9.431E-01	1.316E-01	-1.864E+00	2.898E+00	-1.33E+02	-3.33E+02	1.61E+03	0.288
181	2	320	4.008E+00	-1.160E+00	9.431E-01	-1.316E-01	-6.755E+00	-2.860E+00	-1.30E+02	-1.21E+03	-1.59E+03	0.406
			-5.203E+00	-9.227E-01	-2.237E+00	-1.541E-01	4.538E-01	-4.119E-02	-1.69E+02	8.10E+01	-2.29E+01	0.038
		220	-5.246E+00	-9.227E-01	-2.237E+00	-1.541E-01	-4.443E+00	-2.940E+00	-1.70E+02	-7.93E+02	-1.63E+03	0.361
181	3	320	9.077E+00	4.853E-02	8.672E+00	5.297E-02	1.547E+01	-2.024E-01	-2.95E+02	2.76E+03	-1.12E+02	0.440

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			-1.341E-01	2.856E-01	5.492E+00	3.042E-02	3.390E+00	3.351E-01	-4.35E+00	6.05E+02	1.86E+02	0.111
		220	-1.772E-01	2.856E-01	5.492E+00	3.042E-02	1.200E+01	4.477E-01	-5.75E+00	2.14E+03	2.49E+02	0.333
181	4	320	9.091E-02	-2.856E-01	-5.492E+00	-3.042E-02	-2.506E+01	-9.410E-01	-2.95E+00	-4.48E+03	-5.23E+02	0.695
			-9.120E+00	-4.853E-02	-8.672E+00	-5.297E-02	-1.747E+00	2.157E-01	-2.96E+02	-3.12E+02	1.20E+02	0.101
		220	-9.163E+00	-4.853E-02	-8.672E+00	-5.297E-02	-1.830E+01	-4.897E-01	-2.98E+02	-3.27E+03	-2.72E+02	0.533
182	1	222	9.949E+00	1.018E+00	6.438E-01	3.277E-02	3.219E+00	5.091E+00	-3.23E+02	1.79E+03	9.09E+02	0.420
			-8.075E+00	1.020E+00	6.438E-01	6.105E-03	1.609E+00	2.549E+00	-2.62E+02	8.94E+02	4.55E+02	0.224
		122	-8.118E+00	1.020E+00	6.438E-01	6.105E-03	0.000E+00	0.000E+00	-2.64E+02	0.00E+00	0.00E+00	0.037
182	2	222	8.031E+00	-1.020E+00	-6.438E-01	-6.105E-03	-3.219E+00	-5.099E+00	-2.61E+02	-1.79E+03	-9.10E+02	0.411
			-9.992E+00	-1.018E+00	-6.438E-01	-3.277E-02	-1.609E+00	-2.546E+00	-3.24E+02	-8.94E+02	-4.55E+02	0.232
		122	-1.004E+01	-1.018E+00	-6.438E-01	-3.277E-02	0.000E+00	0.000E+00	-3.26E+02	0.00E+00	0.00E+00	0.045
182	3	222	9.485E+00	1.666E-01	6.253E-01	4.017E-02	3.126E+00	8.329E-01	-3.08E+02	1.74E+03	1.49E+02	0.305
			-8.539E+00	1.681E-01	6.253E-01	1.350E-02	1.563E+00	4.202E-01	-2.77E+02	8.68E+02	7.50E+01	0.170
		122	-8.582E+00	1.681E-01	6.253E-01	1.350E-02	0.000E+00	0.000E+00	-2.79E+02	0.00E+00	0.00E+00	0.039
182	4	222	8.496E+00	-1.681E-01	-6.253E-01	-1.350E-02	-3.126E+00	-8.403E-01	-2.76E+02	-1.74E+03	-1.50E+02	0.300
			-9.528E+00	-1.666E-01	-6.253E-01	-4.017E-02	-1.563E+00	-4.165E-01	-3.09E+02	-8.68E+02	-7.44E+01	0.174
		122	-9.571E+00	-1.666E-01	-6.253E-01	-4.017E-02	0.000E+00	0.000E+00	-3.11E+02	0.00E+00	0.00E+00	0.043
183	1	322	4.974E+00	1.018E+00	6.438E-01	3.277E-02	0.000E+00	0.000E+00	-1.62E+02	0.00E+00	0.00E+00	0.022
			-4.033E+00	1.020E+00	6.438E-01	6.105E-03	1.609E+00	2.546E+00	-1.31E+02	8.94E+02	4.55E+02	0.206
		222	-4.076E+00	1.020E+00	6.438E-01	6.105E-03	3.219E+00	5.092E+00	-1.32E+02	1.79E+03	9.09E+02	0.393
183	2	322	3.990E+00	-1.020E+00	-6.438E-01	-6.105E-03	0.000E+00	0.000E+00	-1.30E+02	0.00E+00	0.00E+00	0.018
			-5.017E+00	-1.018E+00	-6.438E-01	-3.277E-02	-1.609E+00	-2.550E+00	-1.63E+02	-8.94E+02	-4.55E+02	0.210
		222	-5.061E+00	-1.018E+00	-6.438E-01	-3.277E-02	-3.219E+00	-5.099E+00	-1.64E+02	-1.79E+03	-9.11E+02	0.398
183	3	322	4.759E+00	1.655E-01	6.253E-01	4.017E-02	0.000E+00	0.000E+00	-1.55E+02	0.00E+00	0.00E+00	0.021
			-4.249E+00	1.669E-01	6.253E-01	1.350E-02	1.563E+00	4.137E-01	-1.38E+02	8.68E+02	7.39E+01	0.150
		222	-4.292E+00	1.669E-01	6.253E-01	1.350E-02	3.126E+00	8.273E-01	-1.39E+02	1.74E+03	1.48E+02	0.281
183	4	322	4.206E+00	-1.669E-01	-6.253E-01	-1.350E-02	0.000E+00	0.000E+00	-1.37E+02	0.00E+00	0.00E+00	0.019
			-4.802E+00	-1.655E-01	-6.253E-01	-4.017E-02	-1.563E+00	-4.174E-01	-1.56E+02	-8.68E+02	-7.45E+01	0.153
		222	-4.845E+00	-1.655E-01	-6.253E-01	-4.017E-02	-3.126E+00	-8.347E-01	-1.57E+02	-1.74E+03	-1.49E+02	0.284
184	1	224	1.001E+01	9.574E-01	4.906E-01	1.339E-02	2.453E+00	4.787E+00	-3.25E+02	1.36E+03	8.55E+02	0.353
			-7.797E+00	9.580E-01	4.906E-01	3.611E-03	1.226E+00	2.395E+00	-2.53E+02	6.81E+02	4.28E+02	0.189
		124	-7.840E+00	9.580E-01	4.906E-01	3.611E-03	0.000E+00	0.000E+00	-2.55E+02	0.00E+00	0.00E+00	0.035
184	2	224	7.754E+00	-9.580E-01	-4.906E-01	-3.611E-03	-2.453E+00	-4.790E+00	-2.52E+02	-1.36E+03	-8.55E+02	0.343
			-1.005E+01	-9.574E-01	-4.906E-01	-1.339E-02	-1.226E+00	-2.394E+00	-3.26E+02	-6.81E+02	-4.27E+02	0.199
		124	-1.009E+01	-9.574E-01	-4.906E-01	-1.339E-02	0.000E+00	0.000E+00	-3.28E+02	0.00E+00	0.00E+00	0.046
184	3	224	9.661E+00	1.627E-01	7.928E-01	1.533E-02	3.964E+00	8.136E-01	-3.14E+02	2.20E+03	1.45E+02	0.370
			-8.144E+00	1.633E-01	7.928E-01	5.549E-03	1.982E+00	4.082E-01	-2.64E+02	1.10E+03	7.29E+01	0.200
		124	-8.187E+00	1.633E-01	7.928E-01	5.549E-03	0.000E+00	0.000E+00	-2.66E+02	0.00E+00	0.00E+00	0.037
184	4	224	8.101E+00	-1.633E-01	-7.928E-01	-5.549E-03	-3.964E+00	-8.164E-01	-2.63E+02	-2.20E+03	-1.46E+02	0.363
			-9.704E+00	-1.627E-01	-7.928E-01	-1.533E-02	-1.982E+00	-4.068E-01	-3.15E+02	-1.10E+03	-7.26E+01	0.207
		124	-9.748E+00	-1.627E-01	-7.928E-01	-1.533E-02	0.000E+00	0.000E+00	-3.16E+02	0.00E+00	0.00E+00	0.044
185	1	324	4.919E+00	9.571E-01	4.906E-01	1.339E-02	0.000E+00	0.000E+00	-1.60E+02	0.00E+00	0.00E+00	0.022
			-3.871E+00	9.577E-01	4.906E-01	3.611E-03	1.226E+00	2.393E+00	-1.26E+02	6.81E+02	4.27E+02	0.171

		224	-3.914E+00	9.577E-01	4.906E-01	3.611E-03	2.453E+00	4.786E+00	-1.27E+02	1.36E+03	8.55E+02	0.326
185	2	324	3.827E+00	-9.577E-01	-4.906E-01	-3.611E-03	0.000E+00	0.000E+00	-1.24E+02	0.00E+00	0.00E+00	0.017
			-4.962E+00	-9.571E-01	-4.906E-01	-1.339E-02	-1.226E+00	-2.394E+00	-1.61E+02	-6.81E+02	-4.28E+02	0.176
		224	-5.005E+00	-9.571E-01	-4.906E-01	-1.339E-02	-2.453E+00	-4.788E+00	-1.62E+02	-1.36E+03	-8.55E+02	0.331
185	3	324	4.810E+00	1.622E-01	7.928E-01	1.533E-02	0.000E+00	0.000E+00	-1.56E+02	0.00E+00	0.00E+00	0.022
			-3.979E+00	1.628E-01	7.928E-01	5.549E-03	1.982E+00	4.056E-01	-1.29E+02	1.10E+03	7.24E+01	0.181
		224	-4.022E+00	1.628E-01	7.928E-01	5.549E-03	3.964E+00	8.112E-01	-1.31E+02	2.20E+03	1.45E+02	0.344
185	4	324	3.936E+00	-1.628E-01	-7.928E-01	-5.549E-03	0.000E+00	0.000E+00	-1.28E+02	0.00E+00	0.00E+00	0.018
			-4.853E+00	-1.622E-01	-7.928E-01	-1.533E-02	-1.982E+00	-4.070E-01	-1.58E+02	-1.10E+03	-7.27E+01	0.185
		224	-4.897E+00	-1.622E-01	-7.928E-01	-1.533E-02	-3.964E+00	-8.140E-01	-1.59E+02	-2.20E+03	-1.45E+02	0.348
186	1	226	9.976E+00	8.762E-01	3.876E-01	4.425E-03	1.938E+00	4.381E+00	-3.24E+02	1.08E+03	7.82E+02	0.303
			-7.829E+00	8.756E-01	3.876E-01	1.420E-02	9.690E-01	2.189E+00	-2.54E+02	5.38E+02	3.91E+02	0.164
		126	-7.872E+00	8.756E-01	3.876E-01	1.420E-02	0.000E+00	0.000E+00	-2.56E+02	0.00E+00	0.00E+00	0.035
186	2	226	7.786E+00	-8.756E-01	-3.876E-01	-1.420E-02	-1.938E+00	-4.378E+00	-2.53E+02	-1.08E+03	-7.82E+02	0.293
			-1.002E+01	-8.762E-01	-3.876E-01	-4.425E-03	-9.691E-01	-2.190E+00	-3.25E+02	-5.38E+02	-3.91E+02	0.174
		126	-1.006E+01	-8.762E-01	-3.876E-01	-4.425E-03	0.000E+00	0.000E+00	-3.27E+02	0.00E+00	0.00E+00	0.045
186	3	226	9.650E+00	1.581E-01	7.976E-01	5.137E-03	3.988E+00	7.905E-01	-3.13E+02	2.22E+03	1.41E+02	0.371
			-8.155E+00	1.575E-01	7.976E-01	1.491E-02	1.994E+00	3.939E-01	-2.65E+02	1.11E+03	7.03E+01	0.200
		126	-8.199E+00	1.575E-01	7.976E-01	1.491E-02	0.000E+00	0.000E+00	-2.66E+02	0.00E+00	0.00E+00	0.037
186	4	226	8.112E+00	-1.575E-01	-7.976E-01	-1.491E-02	-3.988E+00	-7.877E-01	-2.63E+02	-2.22E+03	-1.41E+02	0.364
			-9.693E+00	-1.581E-01	-7.976E-01	-5.137E-03	-1.994E+00	-3.952E-01	-3.15E+02	-1.11E+03	-7.06E+01	0.207
		126	-9.736E+00	-1.581E-01	-7.976E-01	-5.137E-03	0.000E+00	0.000E+00	-3.16E+02	0.00E+00	0.00E+00	0.044
187	1	326	4.909E+00	8.757E-01	3.876E-01	4.425E-03	0.000E+00	0.000E+00	-1.59E+02	0.00E+00	0.00E+00	0.022
			-3.880E+00	8.751E-01	3.876E-01	1.420E-02	9.690E-01	2.189E+00	-1.26E+02	5.38E+02	3.91E+02	0.147
		226	-3.923E+00	8.751E-01	3.876E-01	1.420E-02	1.938E+00	4.378E+00	-1.27E+02	1.08E+03	7.82E+02	0.276
187	2	326	3.837E+00	-8.751E-01	-3.876E-01	-1.420E-02	0.000E+00	0.000E+00	-1.25E+02	0.00E+00	0.00E+00	0.017
			-4.953E+00	-8.757E-01	-3.876E-01	-4.425E-03	-9.691E-01	-2.188E+00	-1.61E+02	-5.38E+02	-3.91E+02	0.151
		226	-4.996E+00	-8.757E-01	-3.876E-01	-4.425E-03	-1.938E+00	-4.376E+00	-1.62E+02	-1.08E+03	-7.81E+02	0.281
187	3	326	4.804E+00	1.584E-01	7.976E-01	5.137E-03	0.000E+00	0.000E+00	-1.56E+02	0.00E+00	0.00E+00	0.022
			-3.985E+00	1.579E-01	7.976E-01	1.491E-02	1.994E+00	3.960E-01	-1.29E+02	1.11E+03	7.07E+01	0.182
		226	-4.028E+00	1.579E-01	7.976E-01	1.491E-02	3.988E+00	7.921E-01	-1.31E+02	2.22E+03	1.41E+02	0.346
187	4	326	3.942E+00	-1.579E-01	-7.976E-01	-1.491E-02	0.000E+00	0.000E+00	-1.28E+02	0.00E+00	0.00E+00	0.018
			-4.847E+00	-1.584E-01	-7.976E-01	-5.137E-03	-1.994E+00	-3.946E-01	-1.57E+02	-1.11E+03	-7.05E+01	0.186
		226	-4.891E+00	-1.584E-01	-7.976E-01	-5.137E-03	-3.988E+00	-7.893E-01	-1.59E+02	-2.22E+03	-1.41E+02	0.349
188	1	228	9.811E+00	7.874E-01	2.950E-01	6.018E-03	1.475E+00	3.937E+00	-3.19E+02	8.19E+02	7.03E+02	0.256
			-8.213E+00	7.859E-01	2.950E-01	3.268E-02	7.375E-01	1.965E+00	-2.67E+02	4.10E+02	3.51E+02	0.143
		128	-8.256E+00	7.859E-01	2.950E-01	3.268E-02	0.000E+00	0.000E+00	-2.68E+02	0.00E+00	0.00E+00	0.037
188	2	228	8.169E+00	-7.859E-01	-2.950E-01	-3.268E-02	-1.475E+00	-3.930E+00	-2.65E+02	-8.19E+02	-7.02E+02	0.248
			-9.854E+00	-7.874E-01	-2.950E-01	-6.018E-03	-7.375E-01	-1.968E+00	-3.20E+02	-4.10E+02	-3.52E+02	0.150
		128	-9.898E+00	-7.874E-01	-2.950E-01	-6.018E-03	0.000E+00	0.000E+00	-3.21E+02	0.00E+00	0.00E+00	0.045
188	3	228	9.475E+00	1.530E-01	6.179E-01	1.339E-02	3.090E+00	7.649E-01	-3.08E+02	1.72E+03	1.37E+02	0.300
			-8.549E+00	1.515E-01	6.179E-01	4.005E-02	1.545E+00	3.787E-01	-2.78E+02	8.58E+02	6.76E+01	0.167
		128	-8.592E+00	1.515E-01	6.179E-01	4.005E-02	0.000E+00	0.000E+00	-2.79E+02	0.00E+00	0.00E+00	0.039

188	4	228	8.506E+00	-1.515E-01	-6.179E-01	-4.005E-02	-3.090E+00	-7.574E-01	-2.76E+02	-1.72E+03	-1.35E+02	0.296
			-9.518E+00	-1.530E-01	-6.179E-01	-1.339E-02	-1.545E+00	-3.824E-01	-3.09E+02	-8.58E+02	-6.83E+01	0.172
		128	-9.561E+00	-1.530E-01	-6.179E-01	-1.339E-02	0.000E+00	0.000E+00	-3.10E+02	0.00E+00	0.00E+00	0.043
189	1	328	4.899E+00	7.874E-01	2.950E-01	6.018E-03	0.000E+00	0.000E+00	-1.59E+02	0.00E+00	0.00E+00	0.022
			-4.109E+00	7.859E-01	2.950E-01	3.268E-02	7.375E-01	1.968E+00	-1.33E+02	4.10E+02	3.52E+02	0.124
		228	-4.152E+00	7.859E-01	2.950E-01	3.268E-02	1.475E+00	3.937E+00	-1.35E+02	8.19E+02	7.03E+02	0.230
189	2	328	4.066E+00	-7.859E-01	-2.950E-01	-3.268E-02	0.000E+00	0.000E+00	-1.32E+02	0.00E+00	0.00E+00	0.018
			-4.942E+00	-7.874E-01	-2.950E-01	-6.018E-03	-7.375E-01	-1.965E+00	-1.60E+02	-4.10E+02	-3.51E+02	0.128
		228	-4.985E+00	-7.874E-01	-2.950E-01	-6.018E-03	-1.475E+00	-3.930E+00	-1.62E+02	-8.19E+02	-7.02E+02	0.234
189	3	328	4.750E+00	1.540E-01	6.179E-01	1.339E-02	0.000E+00	0.000E+00	-1.54E+02	0.00E+00	0.00E+00	0.021
			-4.258E+00	1.525E-01	6.179E-01	4.005E-02	1.545E+00	3.851E-01	-1.38E+02	8.58E+02	6.88E+01	0.148
		228	-4.301E+00	1.525E-01	6.179E-01	4.005E-02	3.090E+00	7.701E-01	-1.40E+02	1.72E+03	1.38E+02	0.277
189	4	328	4.214E+00	-1.525E-01	-6.179E-01	-4.005E-02	0.000E+00	0.000E+00	-1.37E+02	0.00E+00	0.00E+00	0.019
			-4.793E+00	-1.540E-01	-6.179E-01	-1.339E-02	-1.545E+00	-3.814E-01	-1.56E+02	-8.58E+02	-6.81E+01	0.150
		228	-4.836E+00	-1.540E-01	-6.179E-01	-1.339E-02	-3.090E+00	-7.627E-01	-1.57E+02	-1.72E+03	-1.36E+02	0.279
190	1	230	1.025E+01	8.464E-01	2.367E+00	9.826E-02	-9.099E-01	2.009E+00	-3.33E+02	-1.62E+02	1.12E+03	0.224
			-7.946E+00	6.103E-01	-6.142E-01	1.254E-01	-6.069E-01	5.107E-01	-2.58E+02	-1.08E+02	2.84E+02	0.090
		130	-7.989E+00	6.103E-01	-6.142E-01	1.254E-01	-2.158E+00	2.223E+00	-2.59E+02	-3.85E+02	1.24E+03	0.261
190	2	230	7.903E+00	-6.103E-01	6.142E-01	-1.254E-01	-4.927E+00	-2.034E+00	-2.57E+02	-8.80E+02	-1.13E+03	0.315
			-1.030E+01	-8.464E-01	-2.367E+00	-9.826E-02	-1.009E+00	1.046E-01	-3.34E+02	-1.80E+02	5.81E+01	0.080
		130	-1.034E+01	-8.464E-01	-2.367E+00	-9.826E-02	-6.910E+00	-1.018E+00	-3.36E+02	-1.23E+03	-5.65E+02	0.297
190	3	230	2.061E+01	2.662E-01	9.139E+00	2.433E-02	1.377E+01	3.905E-01	-6.69E+02	2.46E+03	2.17E+02	0.465
			2.411E+00	3.010E-02	6.158E+00	5.146E-02	1.637E+00	3.476E-01	7.83E+01	2.92E+02	1.93E+02	0.078
		130	2.368E+00	3.010E-02	6.158E+00	5.146E-02	1.702E+01	9.422E-01	7.69E+01	3.04E+03	5.23E+02	0.506
190	4	230	-2.455E+00	-3.010E-02	-6.158E+00	-5.146E-02	-1.961E+01	-4.154E-01	7.97E+01	-3.50E+03	-2.31E+02	0.529
			-2.065E+01	-2.662E-01	-9.139E+00	-2.433E-02	-3.253E+00	2.676E-01	-6.71E+02	-5.81E+02	1.49E+02	0.194
		130	-2.070E+01	-2.662E-01	-9.139E+00	-2.433E-02	-2.609E+01	2.634E-01	-6.72E+02	-4.66E+03	1.46E+02	0.761
191	1	330	5.087E+00	8.379E-01	2.190E+00	8.596E-02	-3.003E+00	2.142E+00	-1.65E+02	-5.36E+02	1.19E+03	0.263
			-4.124E+00	6.009E-01	-9.905E-01	1.085E-01	1.132E+00	-4.437E-02	-1.34E+02	2.02E+02	-2.46E+01	0.050
		230	-4.167E+00	6.009E-01	-9.905E-01	1.085E-01	-1.940E+00	2.049E+00	-1.35E+02	-3.47E+02	1.14E+03	0.225
191	2	330	4.081E+00	-6.009E-01	9.905E-01	-1.085E-01	-6.589E+00	-9.983E-01	-1.33E+02	-1.18E+03	-5.55E+02	0.259
			-5.130E+00	-8.379E-01	-2.190E+00	-8.596E-02	5.102E-01	-5.064E-01	-1.67E+02	9.11E+01	-2.81E+02	0.075
		230	-5.173E+00	-8.379E-01	-2.190E+00	-8.596E-02	-4.367E+00	-2.007E+00	-1.68E+02	-7.80E+02	-1.11E+03	0.286
191	3	330	9.059E+00	2.636E-01	8.661E+00	2.244E-02	1.544E+01	8.892E-01	-2.94E+02	2.76E+03	4.94E+02	0.492
			-1.524E-01	2.655E-02	5.481E+00	4.499E-02	3.387E+00	-2.180E-01	-4.95E+00	6.05E+02	-1.21E+02	0.102
		230	-1.956E-01	2.655E-02	5.481E+00	4.499E-02	1.197E+01	4.320E-01	-6.35E+00	2.14E+03	2.40E+02	0.331
191	4	330	1.093E-01	-2.655E-02	-5.481E+00	-4.499E-02	-2.503E+01	2.542E-01	-3.55E+00	-4.47E+03	1.41E+02	0.641
			-9.102E+00	-2.636E-01	-8.661E+00	-2.244E-02	-1.745E+00	-3.327E-01	-2.96E+02	-3.12E+02	-1.85E+02	0.110
		230	-9.145E+00	-2.636E-01	-8.661E+00	-2.244E-02	-1.828E+01	-3.900E-01	-2.97E+02	-3.26E+03	-2.17E+02	0.525

D76/76

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E1 of 11

Subject T4 Utilities Bridge Job No. 1086409002

E Bridge Framing Design

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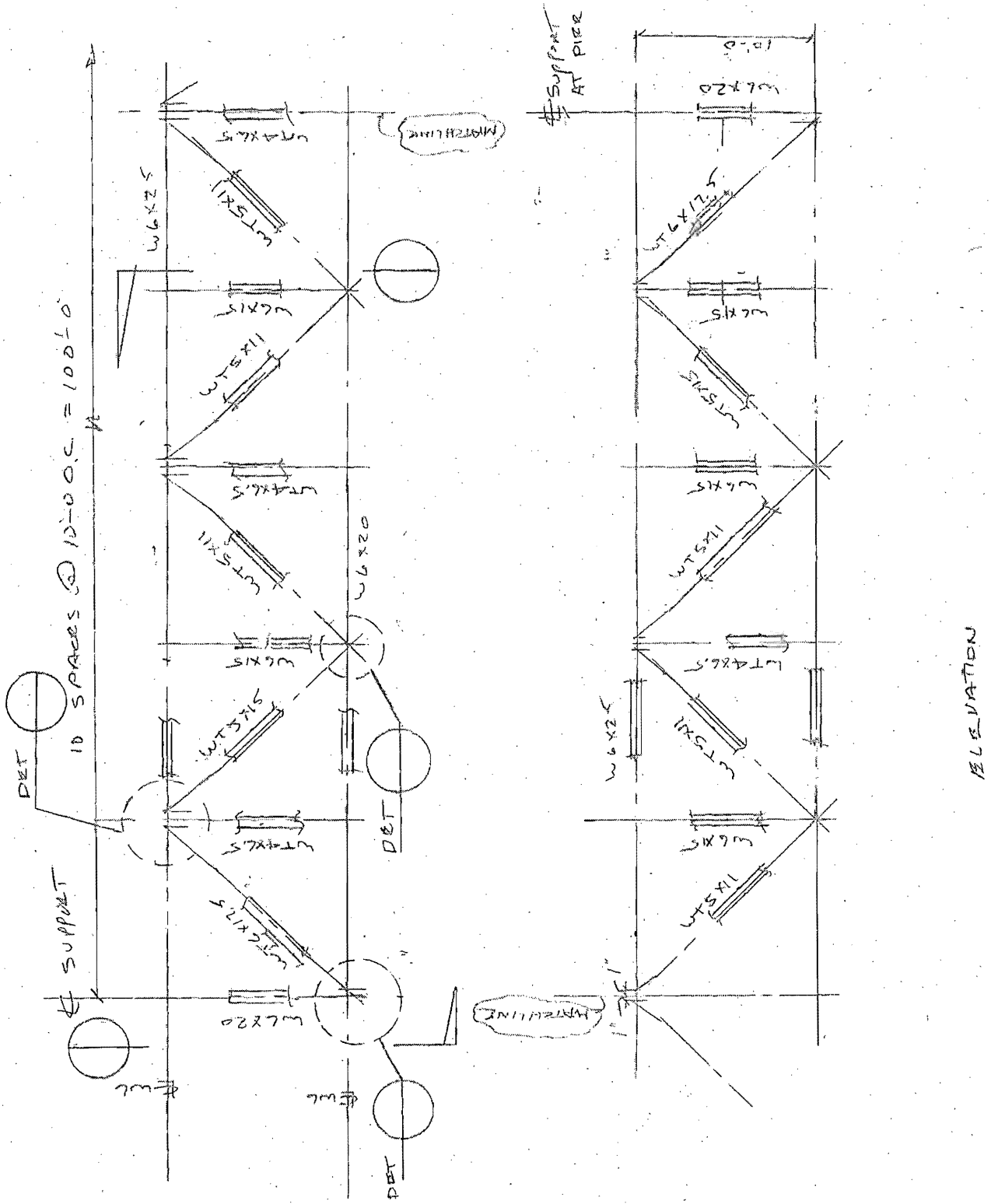
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E3 of 11

Subject T4 Utilities Bridge Job No. W86409002



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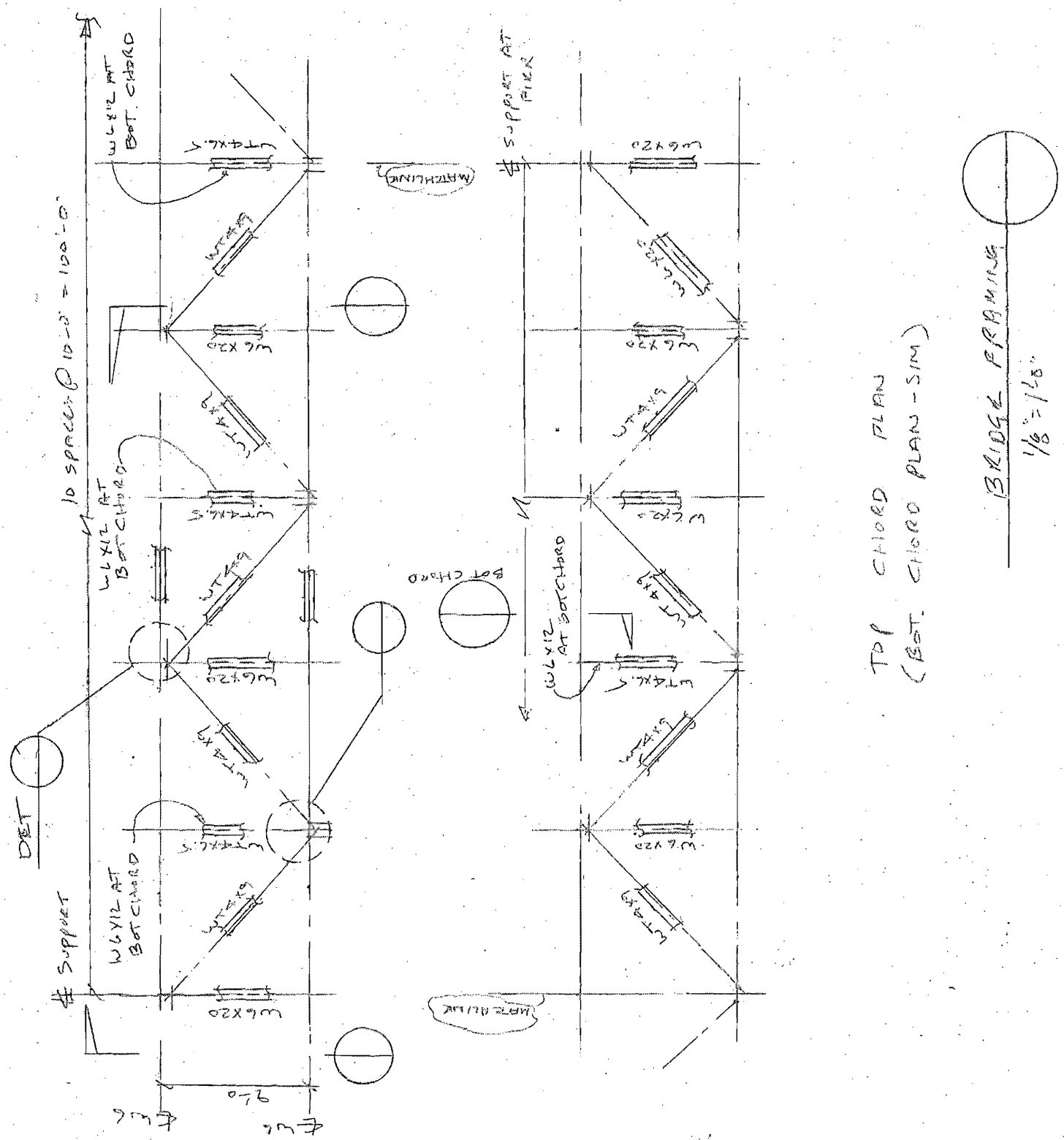
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E2 of 11

Subject T&U Utilities Bridge Job No. 1086909002



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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E4 of 11

Subject T4 Utilities Bridge Job No. 086409002

Bridge Member Design

End Pipe Support Bms W6x20 Z = 14.9

Member 21 Seismic 3 A = 5.87 Sz = 13.4 in³ r = 1.5

P = 4.2 k Mz = 26.9 ft-k fb = 4.2/5.87 = ksi

Mallow = 14.9 x 50 / 1.6 x 1.67 = 37.2 ft-k > 26.9

Top Chord

W6x25 A = 7.34 r = 1.52 in

Fy = 50 ksi

Pallow = 39.75/1.67 x 7.34 = 174.7

Seismic

Mem 65 Seismic 3

P = 144.3

144.3/174.7 < 1.0 ok

Kl/r = .7 x 10 x 12 / 1.5 = 56

Bot Chord W6x20 A = 5.87

Mem 84 Seismic 4

P = -134 k

Pn = -5.87 x 50 = -293.5 k

Pc = 293.5/1.67 = -175 ok By Inspection

-134/-175 ok

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E5 of 11

Subject T4 Utilities Bridge Job No. 108440902

Bridge Member Design

End Vertical Diag. WT 5X15 $F_y = 50$ ksi

ck WT5X15 STEM AS unstiffened element $d/t = \frac{5.235}{.3} = 17.45$

ASCE 7 $.75\sqrt{\frac{30 \times 10^3}{50}} = 13.4 > 17.5$ $Q_s = 1.0$

$A = 4.42$ in^2 $r = 1.37$ $l = 13.3'$ $\frac{Kl}{r} = \frac{.90 \times 13.3 \times 12}{1.37} = 104.8$

$F_a = \frac{22.329}{1.67} = 13.37$ ksi

Mem. 110 Seis 2 $P = 56.5$ k

110 Seismic 2
$P = 56.5$ k

$f_a = \frac{56.5}{4.42} = 12.8$ ksi < 13.4 ok WT5X15 Adequate

USE WT6X17.5

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E6 of 11

Subject T4 Utilities Bridge Job No. 108649002

Bridge Member Design

Intermediate Pipe Support Bms W6x20 9'-0" span $F_y = 50$ ksi

Wt Bm + pipes = .89 + .02 = .91 k/ft

gravity controlling

$M_z = \frac{.91 \times 9^2}{8} = 9.21$ k/ft $f_{bz} = \frac{9.21 \times 12}{13.4} = 8.29$ ksi

Vert axis bending from pipe expansion

coef friction = .4

$M_y = .4 \times .89 \frac{\times 9^2}{8} = 3.60$ ft-k $f_{by} = \frac{3.6 \times 12}{3.11} = 13.9$ ksi

ck unsupported flange from table

Mallow = 37.5 ft-k w/ 9'-0" span

OK

END VERTICAL BRACE

END VERT W6x20

$F_y = 50$ ksi

Max LRFD seismic 4 $M_{xx} = 26.1$ ft-k P = 20.7 k

S = 13.4 in³ A = 5.87 in² r = 1.50 S = 4.41 $Z_{xx} = 14.9$

Z = 6.72

$M_{allow} = \frac{14.9 \times 50}{12 \times 1.67} = 37.12$ $\frac{M}{M_{allow}} = \frac{26.1}{37.1} = .70$ $f_a = \frac{20.7}{5.87} = 3.52$ ksi

$\frac{Kl}{r} = \frac{.7(9.5 \times 12)}{1.5} = 53.2$ $P_n = 40.6$ ksi $P_{allow} = \frac{40.6}{1.67} = 24.3$ ksi

$\frac{P}{P_{allow}} = \frac{3.52}{24.3} = .14$ $.70 + .14 < 1.0$

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By L. Lewis Date 2/09 Client Port of Portland Sheet No. E7 of 11

Subject T4 Utilities Bridge Job No. 086409002

Bridge Member Design

End Vertical Brace cont'd

ck for gravity loads + pipe expansion

mem L60 P = 8.6k Mz = 4.44 ft-k

M_y pipe expansion = .4 x .89 x 4.5 x $\frac{9.5}{4}$ = 3.8 ft-k

M_{ny} = 6.72 x .66 x 50 = 221.8 in-k M_{nz} = 14.9 x .66 x 50 = 491.7 in-k

P_{allow} = 243 K

$$\frac{8.6}{243} + \frac{3.8 \times 12}{221.8} + \frac{4.44 \times 12}{491.7} = .67 < 1.0$$

Intermediate Vertical Brace at Support Beams

L6x1.5 Seismic Controls

Mem. 182 Seism 1 M_{zz} = 42 ft-k M_{yy} = 3.25 ft-k

P = 9.1 k

$f_a = 9.1/4.43 = 2.05$ ksi $f_{by} = \frac{3.25 \times 12}{3.11} = 12.54$ ksi $f_{bz} = \frac{491 \times 12}{9.72} = 6.06$ ksi

$$\frac{2.05}{23.55 \times 1.33} + \frac{12.54 + 6.06}{.66 \times 50 \times 1.33} < 1 \quad \text{OK}$$

ck for gravity load + pipe expansion

$P_{grav.}$ = 8.5 K $M_{y(above\ w.b.)}$ = 3.8 ft-k

$f_a = 8.3/4.43 = 1.87$ ksi $f_b = \frac{3.8 \times 12}{9.72} = 4.7$ ksi

OK by inspection

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. [illegible] of 11

Subject T4 Utilities Bridge Job No. 1086409002

Bridge Member Design

End Vertical Diagonal WT 4x9 Fy = 50 ksi

Mem 1 Seis. 3 A = 2.63 in² r = 1.14

P = 10.2 k Seismic controlling

$f_a = \frac{10.2}{2.63} = 3.87$ ksi $\frac{Kl}{r} = \frac{13 \times 12}{1.14} = 137$

$F_a = 7.94$ ksi ok

End Supported Beam - mid-Height

W6x25 Mem 41 Seis. 3

$M_z = 38.1$ ft-k

$Z_{xx} = 18.9$ in³ $M = \frac{18.9 \times 50}{12} = 78.8$ ft-k

$M_{allow} = 78.8 / 1.67 = 47.2$ ft-k > 38.1 ok

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E9 of 11

Subject T4 Utilities Bridge Job No. 1086409002

Bridge Support Reactions

Loading	Pile Cap 100 P Kips	Pile Cap 100 V_z Kips	Pile Cap 120 P Kips	Berth 401 110 P Kips	Berth 401 110 V_x Kips	Berth 401 110 V_z Kips	Berth 401 130 P Kips
Gravity	46.0		40.6	46.0			40.6
Seismic 1	45.4	5.3	40.8	46.3	40.5	6.2	40.8
Seismic 2	54.0	20.2	46.9	55.1	40.5	20.0	46.8
Seismic 3	33.6	20.3	28.1	33.7	9.1	20.0	28.1
Seismic 4	65.8		59.6	65.7	9.1		59.6

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E10 of 11

Subject T4 Utilities Bridge Job No. 1086409002

Bridge Bearing

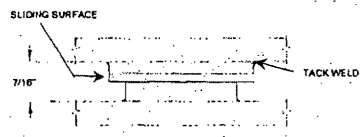
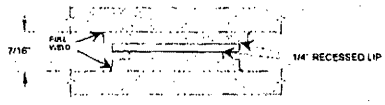
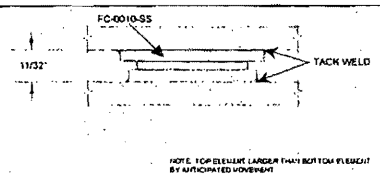
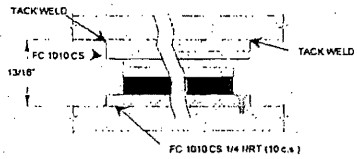
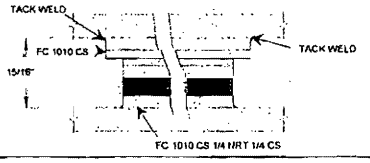
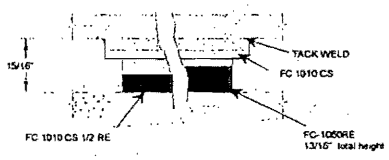
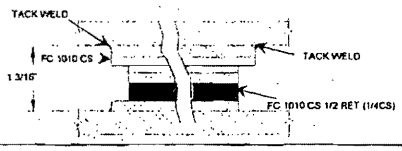
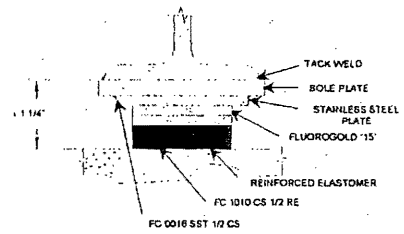
Maximum Vertical Reaction = 65.8K

use Fluorogold reinforced teflon 3/32" thick

Allow brg = 3,500 psi

5½" SQ brg $\frac{65800}{5.5^2}$ = 2,175 psi < 3500 OK

SELECTOR CHART FOR FLUOROGOLD® SLIDE BEARING ELEMENTS

STANDARD ELEMENTS	ALTERNATE ELEMENTS	DESCRIPTION	DETAILS
FC 1010-CS tack weld element	FC 1025-CS FC 1037-CS FC 1050-CS FC1075-CS FC 10100-CS Note: 25-¼"PL 36-⅜"PL 50-½"PL 75-¾"PL 100-1"PL	3/32" Fluorogold bonded to 10gauge carbon steel (CS) for tack welding. Loads: 75 psi to 2000 psi Temperature: -320°F to +400°F Note: Alternate backing materials SS – stainless steel CT – Corten Al – aluminum GL galvanized (hot dipped or electroplated)	
FC 1010-CS ¼ L full weld element LSO – recess short side only LLO – recess long side only	FC 1010-CS¼"L FC 1025-CS¼"L FC 1037-CS¼"L FC 1050-CS¼"L FC 1075-CS¼"L FC 10100-CS¼"L Note: ¼" lip also available	3/32" Fluorogold bonded to 10 gauge carbon steel (CS) with a ¼" lip of steel for full welding. Loads: 75 psi to 2000 psi Temperature: -320°F to +400°F Note: Alternate backing materials are available.	
FC 1010-CS ¼ L Full weld element Alternate application With SS upper element.	Note: Top element call out is FC-0010-SS (2B finish Type 304 SS is standard)	Upper Element:10ga Type 304 SS-2b finish. Lower Element:3/32" Fluorogold bonded to 10 gauge carbon steel (CS) with ¼" lip all around. Loads: 75 psi to 3500 psi Temperature: -320°F to +400°F Note: Alternate backer thicknesses and materials are available.	
FC 1010-CS ¼ NRT 10CS 1/4L tack weld element for rotation deflection expansion Note: ¼" Lip on tack plate (10ga)	Note: top element call out is FC 1010-CS (2B finish SS Is available)	3/32" Fluorogold bonded to 10 gauge carbon steel (CS) then vulcanized to ¼" neoprene which is vulcanized to 10 gauge steel for tack weld Loads: 75 psi to 800 psi Temperature: -50°F to +200°F Note: Alternate neoprene thicknesses are available.	
FC 1010-CS ¼ NRT ¼CS tack weld element for rotation defelection expansion	Note: with flush design for tack plate use ½" PL min. (2B finish SS Is available)	3/32" Fluorogold bonded to 10 gauge carbon steel (CS) then vulcanized to ¼" neoprene which is vulcanized to ¼" carbon steel for tack weld Loads: 75 psi to 800 psi Temperature: -50°F to +200°F Note: Alternate neoprene thicknesses are available.	
FC 1010-CS ½ RE element for deflection expansion at higher loads	FC 1050-RE Note: top element call out is FC 1010-CS	3/32" Fluorogold bonded to 10 gauge carbon steel (CS) then vulcanized to ½" reinforced elastomer (AASHTO 18.4. 10.1) Loads: 75 psi to 1500 psi Temperature: -50°F to +200°F Note: Alternate neoprene thicknesses of reinforced elastomer available.	
FC 1010-CS ½ RET tack weld element	Note: with flush design for tack plate use ¼" PL min.	3/32" Fluorogold bonded to 10 gauge carbon steel (CS) then vulcanized to ½" reinforced elastomer (AASHTO 18.4. 10.1) Loads: 75 psi to 1500 psi Temperature: -50°F to +200°F Note: Alternate neoprene thicknesses of reinforced elastomer available.	
FC 0016-SST½CS ¼ L top element	Note: 25 – ¼"PL 50 – ½"PL etc.	16gauge 304 Mirror finish stainless heliarc welded to ½" sole PL Note: Alternate thicknesses of stainless steel and sole PL available.	
FC 1010-CS ½ RE (15) (15% glass Filled Fluorogold) Bottom element	VFC 1010-CS ½RE (Virgin – unfilled TFE)	3/32" 15% glass filled Fluorogold bonded to 10 gauge carbon steel (CS) then bonded to ½" reinforced elastomer. Loads: 75 psi to 1500 psi Temperature: -50°F to +200°F Note: Alternate thicknesses of reinforced elastomer available.	

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. F 1 of 34

Subject T4 Utilities Bridge Job No. 1086409002

F. Foundation Design

Bridge Foundation on Berth 401

The centerline of the bridge end reactions on Berth 401 are aligned with the plan location of the existing gantry rail on the berth. The original Berth 401 design criteria indicates the shiploader gantry wheel loads imposed on the gantry rail are two – 100 kip wheel loads spaced 3' – 9" on center (200 kips total). This shiploader will be removed prior to construction of the bridge. The total bridge vertical reaction on the berth is 86.6 kips over two supports spaced 9'-0" on center. This bridge reaction on the berth is less than half of the original gantry wheel loads and with a greater spacing.

The vertical bridge seismic analysis reaction on the berth is 65.8 kips at one support. This is 66% of the original 100 kip design wheel load. The bridge lateral seismic reactions on the berth are 20 kips from an earthquake perpendicular to the bridge axis and 40.5 kips from an earthquake parallel with the bridge axis. The greater reaction parallel with the bridge axis results because the lateral forces in that direction are resisted by a single support that is on the berth. Perpendicular forces are resisted by supports at both the pile cap and berth. The total vertical weight of the bridge and filled pipes is 171 kips which is 2 to 3 times less than the non-operating weight of the shiploader that will be removed. Based on this comparison as well as the fact the berth design would have accounted for the shiploader operating at any location along the length of the rail, the berth structure is considered adequate to resist the seismic reactions imposed by the bridge on the berth.

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Bridge Pile Cap/Piles

The piles and pile cap substructure was modeled and analyzed independently of the bridge structure so the configuration where the pile cap displaces one foot laterally toward to berth due to lateral spreading could be included in the design. This displacement was accounted for by laterally displacing the piles linearly from zero displacement at elev. -40 feet to a maximum of 12 inches at elev. +30 feet. Superimposed on this condition was the bridge seismic reactions positioned 12 inches eccentric of the centerline of the piles and pile cap in the direction away from the berth. This modeled the condition where the bridge remains stationary and the pile cap moves 12 inches toward the berth. This pile/pile cap analysis also included the lateral seismic forces resulting from the pile cap mass.

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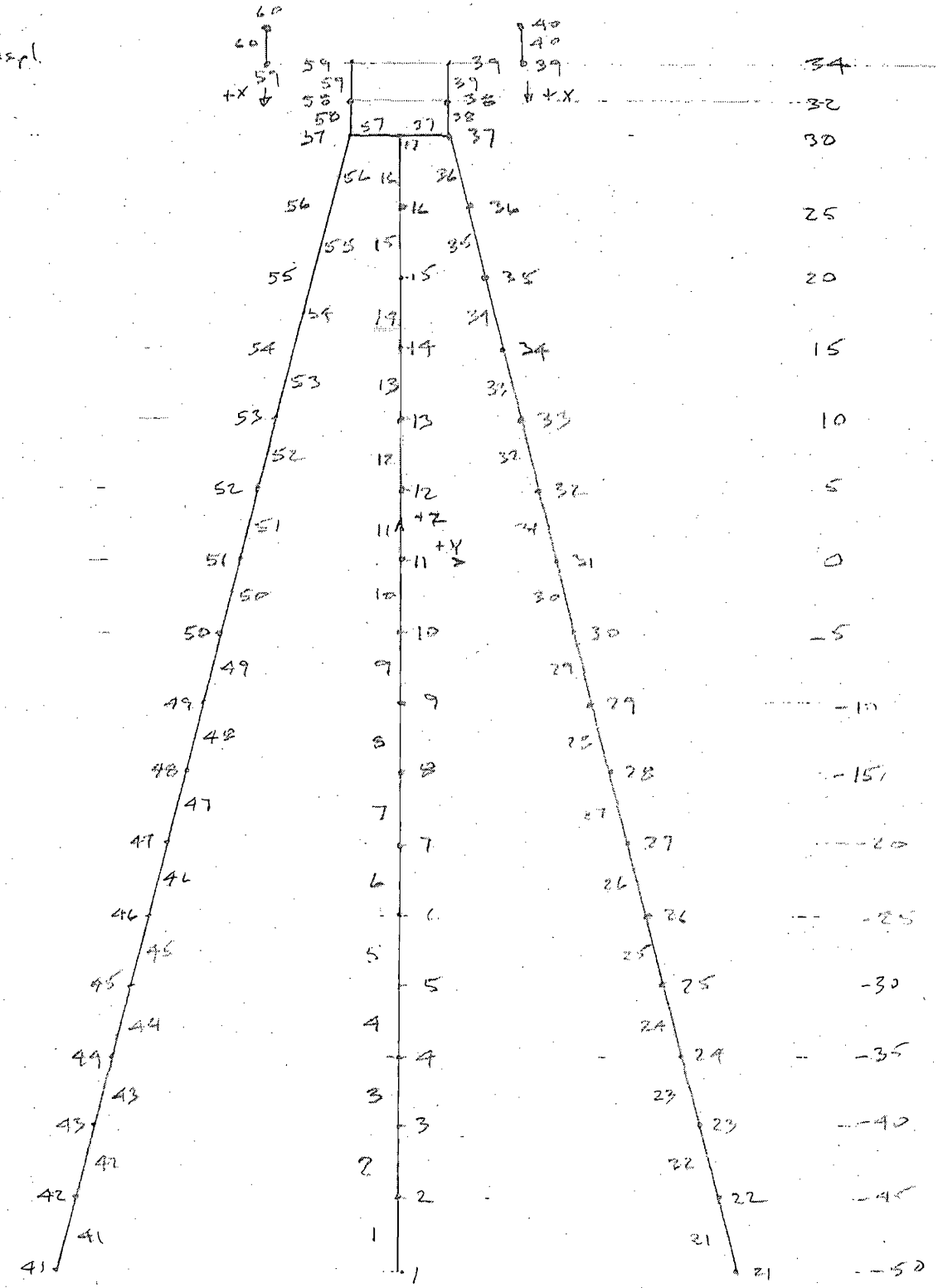
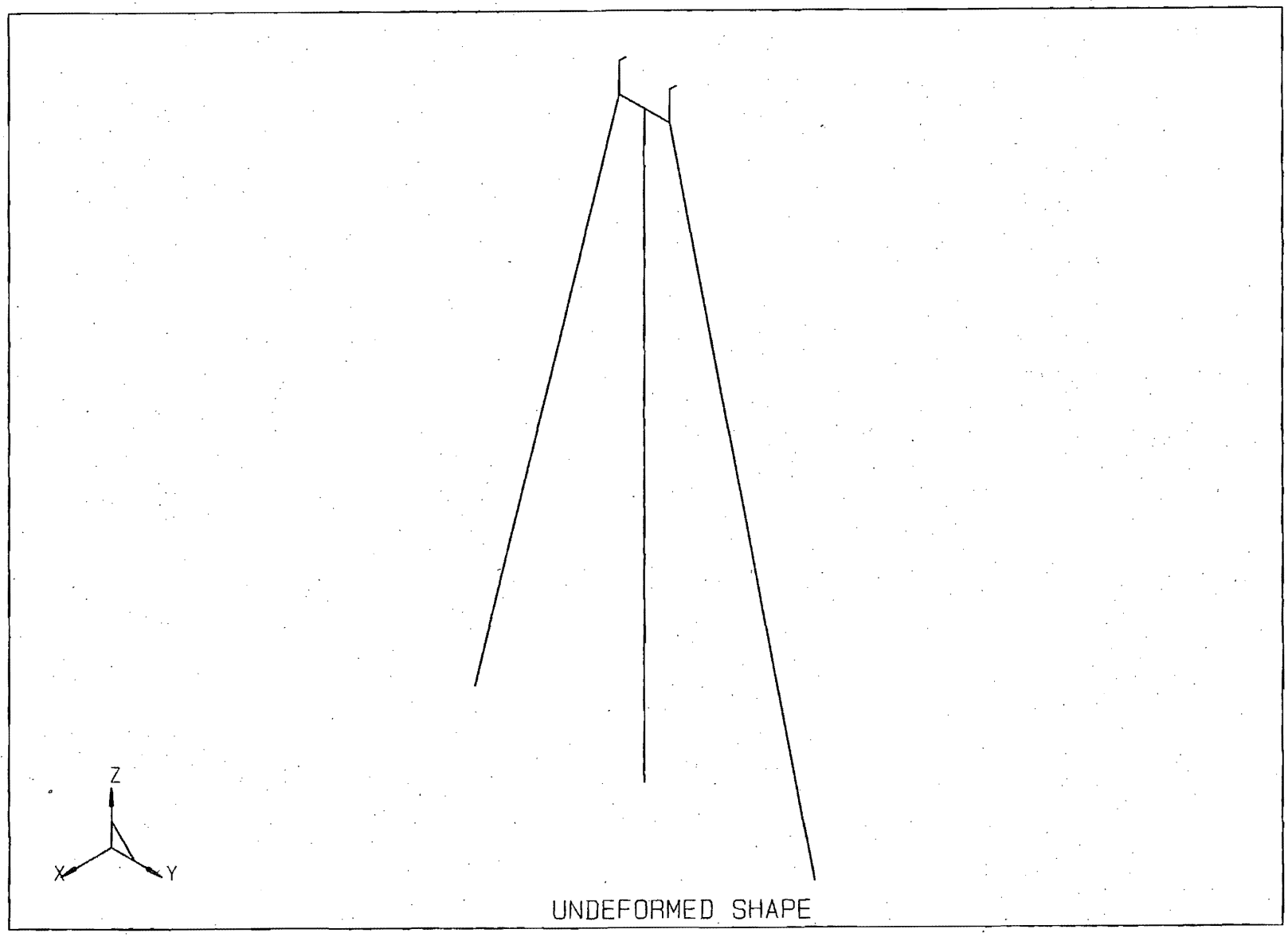
By L. Lewis Date 9/09 Client Port of Portland Sheet No. F4 of 34

Subject T4 Utilities Bridge Job No. 1086409002

Y Coord.	Z Displ.
3.5	1.00
4.75	.928
6.00	.857
7.25	.785
8.50	.714
9.75	.643
11.00	.571
12.25	.500
13.50	.429
14.75	.357
16.00	.286
17.25	.214
18.50	.143
19.75	.071
21.00	
22.25	
23.50	



BATTER PILE



POP T4 BRIDGE PILE CAP

EDP - EXTENDED DESIGN PACKAGE
V3.93 01-22- 9 1:41:33
DIGITAL STRUCTURES, INC. 1

F5/34

Pile & Pile Cap analysis w/ 1'-0" Pile cap lateral displacement + seismic bridge reaction

bridge analysis

$(1.0+.14S_{DS})D + .7\rho Q_E$

Pile forces from this analysis are used for pile design


```
AHALF
AHEAD ***********************************************************
AHEAD          POP T4 BRIDGE PILE CAP
AHEAD ***********************************************************
AHEAD
AHEAD ***********************************************************
AHEAD     THIS MODEL EVALUATES THE PILES WHEN SUBJECTED TO
AHEAD     A FORCED 1' PILE CAP DISPLACEMENT TOWARD THE PIER WHEN
AHEAD     ALSO SUBJECTED TO A SEISMIC LATERAL LOAD
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     FILE:  PILE XYZ.IN
AHEAD ***********************************************************
AHEAD
*APRIN    A    B    C    D    E    F    H
*ANOPR
***********************************************************
*    LOAD SPECIFICATION
***********************************************************
*
BLOAD    1    0
BLOAD    2    0
***********************************************************
*    DIRECTION OF GRAVITY AND WATER DEPTH
***********************************************************
*
BWATR   -Z     -100.      .064        1.      32.2        1.
*
***********************************************************
* PILE COORDINATES
***********************************************************
*
CNODE    1       0.0       0.0     -50.0
CNODE    2       0.0       0.0     -45.0
CNODE    3       0.0       0.0     -40.0
CNODE    4       0.0       0.0     -35.0
CNODE    5       0.0       0.0     -30.0
CNODE    6       0.0       0.0     -25.0
CNODE    7       0.0       0.0     -20.0
CNODE    8       0.0       0.0     -15.0
CNODE    9       0.0       0.0     -10.0
CNODE   10       0.0       0.0      -5.0
CNODE   11       0.0       0.0       0.0
CNODE   12       0.0       0.0       5.0
CNODE   13       0.0       0.0      10.0
CNODE   14       0.0       0.0      15.0
CNODE   15       0.0       0.0      20.0
CNODE   16       0.0       0.0      25.0
CNODE   17       0.0       0.0      30.0
CNODE   21       0.0     23.50     -50.0
CNODE   22       0.0     22.25     -45.0
CNODE   23       0.0     21.00     -40.0
CNODE   24       0.0     19.75     -35.0
CNODE   25       0.0     18.50     -30.0
CNODE   26       0.0     17.25     -25.0
CNODE   27       0.0     16.00     -20.0
CNODE   28       0.0     14.75     -15.0
CNODE   29       0.0     13.50     -10.0
CNODE   30       0.0     12.25      -5.0
CNODE   31       0.0     11.00       0.0
CNODE   32       0.0      9.75       5.0
CNODE   33       0.0      8.50      10.0
CNODE   34       0.0      7.25      15.0
CNODE   35       0.0      6.00      20.0
CNODE   36       0.0      4.75      25.0
CNODE   37       0.0      3.50      30.0
CNODE   38       0.0      3.50      32.0
CNODE   39       0.0      3.50      34.0
CNODE   40      -1.0      3.50      34.0
CNODE   41       0.0    -23.50     -50.0
CNODE   42       0.0    -22.25     -45.0
CNODE   43       0.0    -21.00     -40.0
CNODE   44       0.0    -19.75     -35.0
CNODE   45       0.0    -18.50     -30.0
CNODE   46       0.0    -17.25     -25.0
CNODE   47       0.0    -16.00     -20.0
CNODE   48       0.0    -14.75     -15.0
```

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```
CNODE   49      0.0     -13.50     -10.0
CNODE   50      0.0     -12.25      -5.0
CNODE   51      0.0     -11.00       0.0
CNODE   52      0.0      -9.75       5.0
CNODE   53      0.0      -8.50      10.0
CNODE   54      0.0      -7.25      15.0
CNODE   55      0.0      -6.00      20.0
CNODE   56      0.0      -4.75      25.0
CNODE   57      0.0      -3.50      30.0
CNODE   58      0.0      -3.50      32.0
CNODE   59      0.0      -3.50      34.0
CNODE   60     -1.0      -3.50      34.0
*
CRSEQ
CSCAL    1       1.
*
*****************************************************************************
* BOUNDARY CONDITIONS
*****************************************************************************
DFIX     1    1    1    1    1    1    1
DFIX    21    1    1    1    1    1    1
DFIX    41    1    1    1    1    1    1
DFIX     4    2    0    0    0    0    0
DFIX     5    2    0    0    0    0    0
DFIX     6    2    0    0    0    0    0
DFIX     7    2    0    0    0    0    0
DFIX     8    2    0    0    0    0    0
DFIX     9    2    0    0    0    0    0
DFIX    10    2    0    0    0    0    0
DFIX    11    2    0    0    0    0    0
DFIX    12    2    0    0    0    0    0
DFIX    13    2    0    0    0    0    0
DFIX    14    2    0    0    0    0    0
DFIX    15    2    0    0    0    0    0
DFIX    16    2    0    0    0    0    0
DFIX    17    2    0    0    0    0    0
DFIX    24    2    0    0    0    0    0
DFIX    25    2    0    0    0    0    0
DFIX    26    2    0    0    0    0    0
DFIX    27    2    0    0    0    0    0
DFIX    28    2    0    0    0    0    0
DFIX    29    2    0    0    0    0    0
DFIX    30    2    0    0    0    0    0
DFIX    31    2    0    0    0    0    0
DFIX    32    2    0    0    0    0    0
DFIX    33    2    0    0    0    0    0
DFIX    34    2    0    0    0    0    0
DFIX    35    2    0    0    0    0    0
DFIX    36    2    0    0    0    0    0
DFIX    37    2    0    0    0    0    0
DFIX    44    2    0    0    0    0    0
DFIX    45    2    0    0    0    0    0
DFIX    46    2    0    0    0    0    0
DFIX    47    2    0    0    0    0    0
DFIX    48    2    0    0    0    0    0
DFIX    49    2    0    0    0    0    0
DFIX    50    2    0    0    0    0    0
DFIX    51    2    0    0    0    0    0
DFIX    52    2    0    0    0    0    0
DFIX    53    2    0    0    0    0    0
DFIX    54    2    0    0    0    0    0
DFIX    55    2    0    0    0    0    0
DFIX    56    2    0    0    0    0    0
DFIX    57    2    0    0    0    0    0
*  *****************************************************************************
* IDENTICATION OF BEAM ELEMENTS AND NUMBERING
*  *****************************************************************************
*
EBEAM      PILE BEAM ELEMENTS
*
EBMAT    1  4176000.       0.3      0.490
EBSEC    1      0.35      0.50       0.50      .0135      .0135      .0135 0.53 0.53
EBSEC    2      1.00      0.50       0.50      .5000      .5000      .5000
*
EBMEM    1    1    2         1    1          000000     000000
EBMEM    2    2    3         1    1          000000     000000
EBMEM    3    3    4         1    1          000000     000000
EBMEM    4    4    5         1    1          000000     000000
EBMEM    5    5    6         1    1          000000     000000
```

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```
EBMEM    6    6    7        1    1        000000    000000
EBMEM    7    7    8        1    1        000000    000000
EBMEM    8    8    9        1    1        000000    000000
EBMEM    9    9   10        1    1        000000    000000
EBMEM   10   10   11        1    1        000000    000000
EBMEM   11   11   12        1    1        000000    000000
EBMEM   12   12   13        1    1        000000    000000
EBMEM   13   13   14        1    1        000000    000000
EBMEM   14   14   15        1    1        000000    000000
EBMEM   15   15   16        1    1        000000    000000
EBMEM   16   16   17        1    1        000000    000000
EBMEM   21   21   22        1    1        000000    000000
EBMEM   22   22   23        1    1        000000    000000
EBMEM   23   23   24        1    1        000000    000000
EBMEM   24   24   25        1    1        000000    000000
EBMEM   25   25   26        1    1        000000    000000
EBMEM   26   26   27        1    1        000000    000000
EBMEM   27   27   28        1    1        000000    000000
EBMEM   28   28   29        1    1        000000    000000
EBMEM   29   29   30        1    1        000000    000000
EBMEM   30   30   31        1    1        000000    000000
EBMEM   31   31   32        1    1        000000    000000
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EBMEM   34   34   35        1    1        000000    000000
EBMEM   35   35   36        1    1        000000    000000
EBMEM   36   36   37        1    1        000000    000000
EBMEM   37   17   37        1    2        000000    000000
EBMEM   38   37   38        1    2        000000    000000
EBMEM   39   38   39        1    2        000000    000000
EBMEM   40   39   40        1    2        000000    000000
EBMEM   41   41   42        1    1        000000    000000
EBMEM   42   42   43        1    1        000000    000000
EBMEM   43   43   44        1    1        000000    000000
EBMEM   44   44   45        1    1        000000    000000
EBMEM   45   45   46        1    1        000000    000000
EBMEM   46   46   47        1    1        000000    000000
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EBMEM   58   57   58        1    2        000000    000000
EBMEM   59   58   59        1    2        000000    000000
EBMEM   60   59   60        1    2        000000    000000
*
*==========================================================
*
*****************************************************
*  LOADS
*****************************************************
FLOAD   40    1                        20.3     -65.8
FLOAD   60    1                                 -59.6
*LOAD   59    1                         5.0
*LOAD   39    1                         5.0
FLOAD   38    1                         3.2     -11.7
FLOAD   58    1                         3.2     -11.7
FLOAD    4    2          0.071
FLOAD    5    2          0.143
FLOAD    6    2          0.214
FLOAD    7    2          0.286
FLOAD    8    2          0.357
FLOAD    9    2          0.429
FLOAD   10    2          0.500
FLOAD   11    2          0.571
FLOAD   12    2          0.643
FLOAD   13    2          0.714
FLOAD   14    2          0.785
FLOAD   15    2          0.857
FLOAD   16    2          0.928
FLOAD   17    2          1.000
FLOAD   24    2          0.071
FLOAD   25    2          0.143
```

```
FLOAD   26    2          0.214
FLOAD   27    2          0.286
FLOAD   28    2          0.357
FLOAD   29    2          0.429
FLOAD   30    2          0.500
FLOAD   31    2          0.571
FLOAD   32    2          0.643
FLOAD   33    2          0.714
FLOAD   34    2          0.785
FLOAD   35    2          0.857
FLOAD   36    2          0.928
FLOAD   37    2          1.000
FLOAD   44    2          0.071
FLOAD   45    2          0.143
FLOAD   46    2          0.214
FLOAD   47    2          0.286
FLOAD   48    2          0.357
FLOAD   49    2          0.429
FLOAD   50    2          0.500
FLOAD   51    2          0.571
FLOAD   52    2          0.643
FLOAD   53    2          0.714
FLOAD   54    2          0.785
FLOAD   55    2          0.857
FLOAD   56    2          0.928
FLOAD   57    2          1.000
**
FSUMM    0
*
FHEAD          90 kips Dead Load
FHEAD          Imposed displacement
*
FCASE    1    1            1.0
FCASE    2    2            1.0
*
*****************************************************************
* LINEAR STATIC PUSHOVER ANALYSIS
*****************************************************************
ZPUSH    1    2    1    5    1    0    0    0
              .00001    .00001    .00001     1000.
                 1.0
*
ZPUSH    1    2    1    5    1    0    1    0
              .00001    .00001    .00001     1000.
                              1.0
*****************************************************************
* REQUEST FOR PLOTS
*****************************************************************
ZPLOT    1    1   01    0    0              POP T4 BRIDGE PILE CAP
                 1.0       1.0       1.0
                 1.0       1.0       1.0
      STIT          BATTER PILE
      UNDF
      PAGE
      BTIT
      DISP              1
      END
```

.....BEAM - GROUP 1 (BEAM ELEMENTS) PILE BEAM ELEMENTS

BEAM NUMBER	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	--RESULTANT Y+Z-- SHEAR	MOMENT	----------STRESSES---------- AXIAL	BEND-Y	BEND-Z	CONTRL UTILIZ
1	1	4.81E+01	-1.38E+00	-4.30E+00	2.08E-04	-1.42E+01	-4.17E+01	4.51E+00	4.40E+01	-1.37E+02	-5.58E+02	-1.64E+03	0.00
		-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	2.49E+01	3.82E+01	4.51E+00	4.57E+01	-1.37E+02	9.79E+02	1.50E+03	0.00
	2	-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	3.57E+01	3.48E+01	4.51E+00	4.99E+01	-1.37E+02	1.40E+03	1.37E+03	0.00
2	2	4.81E+01	-1.38E+00	-4.30E+00	2.08E-04	-3.57E+01	-3.48E+01	4.51E+00	4.99E+01	-1.37E+02	-1.40E+03	-1.37E+03	0.00
		-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	4.64E+01	3.14E+01	4.51E+00	5.60E+01	-1.37E+02	1.82E+03	1.23E+03	0.00
	3	-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	5.72E+01	2.79E+01	4.51E+00	6.36E+01	-1.37E+02	2.25E+03	1.10E+03	0.00
3	3	4.81E+01	-1.38E+00	-4.30E+00	2.08E-04	-5.72E+01	-2.79E+01	4.51E+00	6.36E+01	-1.37E+02	-2.25E+03	-1.10E+03	0.00
		-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	6.79E+01	2.45E+01	4.51E+00	7.22E+01	-1.37E+02	2.67E+03	9.60E+02	0.00
	4	-4.81E+01	1.38E+00	4.30E+00	-2.08E-04	7.87E+01	2.10E+01	4.51E+00	8.14E+01	-1.37E+02	3.09E+03	8.25E+02	0.00
4	4	4.81E+01	-1.38E+00	2.05E+01	2.08E-04	-7.87E+01	-2.10E+01	2.06E+01	8.14E+01	-1.37E+02	-3.09E+03	-8.25E+02	0.00
		-4.81E+01	1.38E+00	-2.05E+01	-2.08E-04	2.73E+01	1.76E+01	2.06E+01	3.25E+01	-1.37E+02	1.07E+03	6.89E+02	0.00
	5	-4.81E+01	1.38E+00	-2.05E+01	-2.08E-04	-2.40E+01	1.41E+01	2.06E+01	2.79E+01	-1.37E+02	-9.44E+02	5.54E+02	0.00
5	5	4.81E+01	-1.38E+00	-6.92E+00	2.08E-04	2.40E+01	-1.41E+01	7.05E+00	2.79E+01	-1.37E+02	9.44E+02	-5.54E+02	0.00
		-4.81E+01	1.38E+00	6.92E+00	-2.08E-04	-6.74E+00	1.07E+01	7.05E+00	1.26E+01	-1.37E+02	-2.65E+02	4.19E+02	0.00
	6	-4.81E+01	1.38E+00	6.92E+00	-2.08E-04	1.06E+01	7.21E+00	7.05E+00	1.28E+01	-1.37E+02	4.14E+02	2.83E+02	0.00
6	6	4.81E+01	-1.38E+00	3.54E+00	2.08E-04	-1.06E+01	-7.21E+00	3.80E+00	1.28E+01	-1.37E+02	-4.14E+02	-2.83E+02	0.00
		-4.81E+01	1.38E+00	-3.54E+00	-2.08E-04	1.69E+00	3.76E+00	3.80E+00	4.13E+00	-1.37E+02	6.65E+01	1.48E+02	0.00
	7	-4.81E+01	1.38E+00	-3.54E+00	-2.08E-04	-7.17E+00	3.15E-01	3.80E+00	7.17E+00	-1.37E+02	-2.81E+02	1.24E+01	0.00
7	7	4.81E+01	-1.38E+00	-2.65E+00	2.08E-04	7.17E+00	-3.15E-01	2.98E+00	7.17E+00	-1.37E+02	2.81E+02	-1.24E+01	0.00
		-4.81E+01	1.38E+00	2.65E+00	-2.08E-04	-5.48E-01	-3.13E+00	2.98E+00	3.18E+00	-1.37E+02	-2.15E+01	-1.23E+02	0.00
	8	-4.81E+01	1.38E+00	2.65E+00	-2.08E-04	6.07E+00	-6.58E+00	2.98E+00	8.95E+00	-1.37E+02	2.38E+02	-2.58E+02	0.00
8	8	4.81E+01	-1.38E+00	2.16E+00	2.08E-04	-6.07E+00	6.58E+00	2.56E+00	8.95E+00	-1.37E+02	-2.38E+02	2.58E+02	0.00
		-4.81E+01	1.38E+00	-2.16E+00	-2.08E-04	6.65E-01	-1.00E+01	2.56E+00	1.01E+01	-1.37E+02	2.61E+01	-3.94E+02	0.00
	9	-4.81E+01	1.38E+00	-2.16E+00	-2.08E-04	-4.74E+00	-1.35E+01	2.56E+00	1.43E+01	-1.37E+02	-1.86E+02	-5.29E+02	0.00
9	9	4.81E+01	-1.38E+00	-9.70E-01	2.08E-04	4.74E+00	1.35E+01	1.69E+00	1.43E+01	-1.37E+02	1.86E+02	5.29E+02	0.00
		-4.81E+01	1.38E+00	9.70E-01	-2.08E-04	-2.31E+00	-1.69E+01	1.69E+00	1.71E+01	-1.37E+02	-9.09E+01	-6.65E+02	0.00
	10	-4.81E+01	1.38E+00	9.70E-01	-2.08E-04	1.11E-01	-2.04E+01	1.69E+00	2.04E+01	-1.37E+02	4.35E+00	-8.00E+02	0.00
10	10	4.81E+01	-1.38E+00	-8.30E-01	2.08E-04	-1.11E-01	2.04E+01	1.61E+00	2.04E+01	-1.37E+02	-4.35E+00	8.00E+02	0.00
		-4.81E+01	1.38E+00	8.30E-01	-2.08E-04	2.19E+00	-2.38E+01	1.61E+00	2.39E+01	-1.37E+02	8.59E+01	-9.35E+02	0.00
	11	-4.81E+01	1.38E+00	8.30E-01	-2.08E-04	4.26E+00	-2.73E+01	1.61E+00	2.76E+01	-1.37E+02	1.67E+02	-1.07E+03	0.00
11	11	4.81E+01	-1.38E+00	1.70E+00	2.08E-04	-4.26E+00	2.73E+01	2.19E+00	2.76E+01	-1.37E+02	-1.67E+02	1.07E+03	0.00
		-4.81E+01	1.38E+00	-1.70E+00	-2.08E-04	1.09E-02	-3.07E+01	2.19E+00	3.07E+01	-1.37E+02	4.26E-01	-1.21E+03	0.00
	12	-4.81E+01	1.38E+00	-1.70E+00	-2.08E-04	-4.24E+00	-3.42E+01	2.19E+00	3.44E+01	-1.37E+02	-1.67E+02	-1.34E+03	0.00
12	12	4.81E+01	-1.38E+00	-8.03E-01	2.08E-04	4.24E+00	3.42E+01	1.60E+00	3.44E+01	-1.37E+02	1.67E+02	1.34E+03	0.00
		-4.81E+01	1.38E+00	8.03E-01	-2.08E-04	-2.23E+00	-3.76E+01	1.60E+00	3.77E+01	-1.37E+02	-8.77E+01	-1.48E+03	0.00
	13	-4.81E+01	1.38E+00	8.03E-01	-2.08E-04	-2.26E-01	-4.11E+01	1.60E+00	4.11E+01	-1.37E+02	-8.87E+00	-1.61E+03	0.00
13	13	4.81E+01	-1.38E+00	-1.09E+00	2.08E-04	2.26E-01	4.11E+01	1.76E+00	4.11E+01	-1.37E+02	8.87E+00	1.61E+03	0.00
		-4.81E+01	1.38E+00	1.09E+00	-2.08E-04	2.49E+00	-4.45E+01	1.76E+00	4.46E+01	-1.37E+02	9.79E+01	-1.75E+03	0.00
	14	-4.81E+01	1.38E+00	1.09E+00	-2.08E-04	5.21E+00	-4.80E+01	1.76E+00	4.82E+01	-1.37E+02	2.05E+02	-1.88E+03	0.00
14	14	4.81E+01	-1.38E+00	2.64E+00	2.08E-04	-5.21E+00	4.80E+01	2.98E+00	4.82E+01	-1.37E+02	-2.05E+02	1.88E+03	0.00
		-4.81E+01	1.38E+00	-2.64E+00	-2.08E-04	-1.39E+00	-5.14E+01	2.98E+00	5.14E+01	-1.37E+02	-5.46E+01	-2.02E+03	0.00

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	15	-4.81E+01	1.38E+00	-2.64E+00	-2.08E-04	-7.99E+00	-5.49E+01	2.98E+00	5.54E+01	-1.37E+02	-3.14E+02	-2.15E+03	0.00
15	15	4.81E+01	-1.38E+00	-4.59E+00	2.08E-04	7.99E+00	5.49E+01	4.80E+00	5.54E+01	-1.37E+02	3.14E+02	2.15E+03	0.00
		-4.81E+01	1.38E+00	4.59E+00	-2.08E-04	3.49E+00	-5.83E+01	4.80E+00	5.84E+01	-1.37E+02	1.37E+02	-2.29E+03	0.00
	16	-4.81E+01	1.38E+00	4.59E+00	-2.08E-04	1.50E+01	-6.18E+01	4.80E+00	6.35E+01	-1.37E+02	5.88E+02	-2.42E+03	0.00
16	16	4.81E+01	-1.38E+00	1.14E+01	2.08E-04	-1.50E+01	6.18E+01	1.15E+01	6.35E+01	-1.37E+02	-5.88E+02	2.42E+03	0.00
		-4.81E+01	1.38E+00	-1.14E+01	-2.08E-04	-1.36E+01	-6.52E+01	1.15E+01	6.66E+01	-1.37E+02	-5.35E+02	-2.56E+03	0.00
	17	-4.81E+01	1.38E+00	-1.14E+01	-2.08E-04	-4.22E+01	-6.87E+01	1.15E+01	8.06E+01	-1.37E+02	-1.66E+03	-2.70E+03	0.00
21	21	9.89E+01	-1.29E+00	-3.93E+00	8.46E-01	-1.33E+01	-4.01E+01	4.14E+00	4.23E+01	-2.83E+02	-5.23E+02	-1.57E+03	0.00
		-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	2.35E+01	3.68E+01	4.14E+00	4.36E+01	-2.83E+02	9.21E+02	1.44E+03	0.00
	22	-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	3.36E+01	3.35E+01	4.14E+00	4.74E+01	-2.83E+02	1.32E+03	1.31E+03	0.00
22	22	9.89E+01	-1.29E+00	-3.93E+00	8.46E-01	-3.36E+01	-3.35E+01	4.14E+00	4.74E+01	-2.83E+02	-1.32E+03	-1.31E+03	0.00
		-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	4.37E+01	3.02E+01	4.14E+00	5.31E+01	-2.83E+02	1.72E+03	1.18E+03	0.00
	23	-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	5.39E+01	2.68E+01	4.14E+00	6.02E+01	-2.83E+02	2.11E+03	1.05E+03	0.00
23	23	9.89E+01	-1.29E+00	-3.93E+00	8.46E-01	-5.39E+01	-2.68E+01	4.14E+00	6.02E+01	-2.83E+02	-2.11E+03	-1.05E+03	0.00
		-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	6.40E+01	2.35E+01	4.14E+00	6.82E+01	-2.83E+02	2.51E+03	9.24E+02	0.00
	24	-9.89E+01	1.29E+00	3.93E+00	-8.46E-01	7.41E+01	2.02E+01	4.14E+00	7.68E+01	-2.83E+02	2.91E+03	7.94E+02	0.00
24	24	9.89E+01	-1.29E+00	1.88E+01	8.46E-01	-7.41E+01	-2.02E+01	1.88E+01	7.68E+01	-2.83E+02	-2.91E+03	-7.94E+02	0.00
		-9.89E+01	1.29E+00	-1.88E+01	-8.46E-01	2.57E+01	1.69E+01	1.88E+01	3.07E+01	-2.83E+02	1.01E+03	6.63E+02	0.00
	25	-9.89E+01	1.29E+00	-1.88E+01	-8.46E-01	-2.27E+01	1.36E+01	1.88E+01	2.65E+01	-2.83E+02	-8.93E+02	5.33E+02	0.00
25	25	9.89E+01	-1.29E+00	-6.36E+00	8.46E-01	2.27E+01	-1.36E+01	6.48E+00	2.65E+01	-2.83E+02	8.93E+02	-5.33E+02	0.00
		-9.89E+01	1.29E+00	6.36E+00	-8.46E-01	-6.37E+00	1.03E+01	6.48E+00	1.21E+01	-2.83E+02	-2.50E+02	4.03E+02	0.00
	26	-9.89E+01	1.29E+00	6.36E+00	-8.46E-01	1.00E+01	6.95E+00	6.48E+00	1.22E+01	-2.83E+02	3.93E+02	2.73E+02	0.00
26	26	9.89E+01	-1.29E+00	3.26E+00	8.46E-01	-1.00E+01	-6.95E+00	3.50E+00	1.22E+01	-2.83E+02	-3.93E+02	-2.73E+02	0.00
		-9.89E+01	1.29E+00	-3.26E+00	-8.46E-01	1.61E+00	3.64E+00	3.50E+00	3.98E+00	-2.83E+02	6.32E+01	1.43E+02	0.00
	27	-9.89E+01	1.29E+00	-3.26E+00	-8.46E-01	-6.79E+00	3.24E-01	3.50E+00	6.80E+00	-2.83E+02	-2.67E+02	1.27E+01	0.00
27	27	9.89E+01	-1.29E+00	-2.43E+00	8.46E-01	6.79E+00	-3.24E-01	2.75E+00	6.80E+00	-2.83E+02	2.67E+02	-1.27E+01	0.00
		-9.89E+01	1.29E+00	2.43E+00	-8.46E-01	-5.23E-01	-2.99E+00	2.75E+00	3.04E+00	-2.83E+02	-2.05E+01	-1.17E+02	0.00
	28	-9.89E+01	1.29E+00	2.43E+00	-8.46E-01	5.74E+00	-6.31E+00	2.75E+00	8.53E+00	-2.83E+02	2.25E+02	-2.48E+02	0.00
28	28	9.89E+01	-1.29E+00	1.98E+00	8.46E-01	-5.74E+00	6.31E+00	2.36E+00	8.53E+00	-2.83E+02	-2.25E+02	2.48E+02	0.00
		-9.89E+01	1.29E+00	-1.98E+00	-8.46E-01	6.32E-01	-9.62E+00	2.36E+00	9.64E+00	-2.83E+02	2.48E+01	-3.78E+02	0.00
	29	-9.89E+01	1.29E+00	-1.98E+00	-8.46E-01	-4.48E+00	-1.29E+01	2.36E+00	1.37E+01	-2.83E+02	-1.76E+02	-5.08E+02	0.00
29	29	9.89E+01	-1.29E+00	-8.90E-01	8.46E-01	4.48E+00	1.29E+01	1.56E+00	1.37E+01	-2.83E+02	1.76E+02	5.08E+02	0.00
		-9.89E+01	1.29E+00	8.90E-01	-8.46E-01	-2.19E+00	-1.63E+01	1.56E+00	1.64E+01	-2.83E+02	-8.58E+01	-6.38E+02	0.00
	30	-9.89E+01	1.29E+00	8.90E-01	-8.46E-01	1.07E-01	-1.96E+01	1.56E+00	1.96E+01	-2.83E+02	4.19E+00	-7.68E+02	0.00
30	30	9.89E+01	-1.29E+00	-7.60E-01	8.46E-01	-1.07E-01	1.96E+01	1.49E+00	1.96E+01	-2.83E+02	-4.19E+00	7.68E+02	0.00
		-9.89E+01	1.29E+00	7.60E-01	-8.46E-01	2.06E+00	-2.29E+01	1.49E+00	2.30E+01	-2.83E+02	8.10E+01	-8.98E+02	0.00
	31	-9.89E+01	1.29E+00	7.60E-01	-8.46E-01	4.02E+00	-2.62E+01	1.49E+00	2.65E+01	-2.83E+02	1.58E+02	-1.03E+03	0.00
31	31	9.89E+01	-1.29E+00	1.56E+00	8.46E-01	-4.02E+00	2.62E+01	2.02E+00	2.65E+01	-2.83E+02	-1.58E+02	1.03E+03	0.00
		-9.89E+01	1.29E+00	-1.56E+00	-8.46E-01	1.18E-02	-2.95E+01	2.02E+00	2.95E+01	-2.83E+02	4.62E-01	-1.16E+03	0.00
	32	-9.89E+01	1.29E+00	-1.56E+00	-8.46E-01	-4.00E+00	-3.28E+01	2.02E+00	3.31E+01	-2.83E+02	-1.57E+02	-1.29E+03	0.00
32	32	9.89E+01	-1.29E+00	-7.31E-01	8.46E-01	4.00E+00	3.28E+01	1.48E+00	3.31E+01	-2.83E+02	1.57E+02	1.29E+03	0.00
		-9.89E+01	1.29E+00	7.31E-01	-8.46E-01	-2.11E+00	-3.61E+01	1.48E+00	3.62E+01	-2.83E+02	-8.30E+01	-1.42E+03	0.00
	33	-9.89E+01	1.29E+00	7.31E-01	-8.46E-01	-2.31E-01	-3.95E+01	1.48E+00	3.95E+01	-2.83E+02	-9.07E+00	-1.55E+03	0.00
33	33	9.89E+01	-1.29E+00	-1.01E+00	8.46E-01	2.31E-01	3.95E+01	1.64E+00	3.95E+01	-2.83E+02	9.07E+00	1.55E+03	0.00
		-9.89E+01	1.29E+00	1.01E+00	-8.46E-01	2.38E+00	-4.28E+01	1.64E+00	4.28E+01	-2.83E+02	9.34E+01	-1.68E+03	0.00
	34	-9.89E+01	1.29E+00	1.01E+00	-8.46E-01	4.99E+00	-4.61E+01	1.64E+00	4.64E+01	-2.83E+02	1.96E+02	-1.81E+03	0.00

#11/34

34	34	9.89E+01	-1.29E+00	2.48E+00	8.46E-01	-4.99E+00	4.61E+01	2.80E+00	4.64E+01	-2.83E+02	-1.96E+02	1.81E+03	0.00
		-9.89E+01	1.29E+00	-2.48E+00	-8.46E-01	-1.41E+00	-4.94E+01	2.80E+00	4.94E+01	-2.83E+02	-5.52E+01	-1.94E+03	0.00
	35	-9.89E+01	1.29E+00	-2.48E+00	-8.46E-01	-7.80E+00	-5.27E+01	2.80E+00	5.33E+01	-2.83E+02	-3.06E+02	-2.07E+03	0.00
35	35	9.89E+01	-1.29E+00	-4.44E+00	8.46E-01	7.80E+00	5.27E+01	4.63E+00	5.33E+01	-2.83E+02	3.06E+02	2.07E+03	0.00
		-9.89E+01	1.29E+00	4.44E+00	-8.46E-01	3.65E+00	-5.60E+01	4.63E+00	5.62E+01	-2.83E+02	1.43E+02	-2.20E+03	0.00
	36	-9.89E+01	1.29E+00	4.44E+00	-8.46E-01	1.51E+01	-5.93E+01	4.63E+00	6.12E+01	-2.83E+02	5.93E+02	-2.33E+03	0.00
36	36	9.89E+01	-1.29E+00	1.14E+01	8.46E-01	-1.51E+01	5.93E+01	1.15E+01	6.12E+01	-2.83E+02	-5.93E+02	2.33E+03	0.00
		-9.89E+01	1.29E+00	-1.14E+01	-8.46E-01	-1.42E+01	-6.27E+01	1.15E+01	6.43E+01	-2.83E+02	-5.59E+02	-2.46E+03	0.00
	37	-9.89E+01	1.29E+00	-1.14E+01	-8.46E-01	-4.36E+01	-6.60E+01	1.15E+01	7.91E+01	-2.83E+02	-1.71E+03	-2.59E+03	0.00
37	17	1.74E+00	2.57E+00	1.82E+01	2.37E+01	9.00E+01	9.33E-02	1.83E+01	9.00E+01	-1.74E+00	0.00E+00	0.00E+00	0.00
		-1.74E+00	-2.57E+00	-1.82E+01	-2.37E+01	-1.22E+02	4.41E+00	1.83E+01	1.22E+02	-1.74E+00	0.00E+00	0.00E+00	0.00
	37	-1.74E+00	-2.57E+00	-1.82E+01	-2.37E+01	-1.54E+02	8.91E+00	1.83E+01	1.54E+02	-1.74E+00	0.00E+00	0.00E+00	0.00
38	37	7.75E+01	-2.35E+01	5.09E-11	2.03E+01	6.58E+01	-8.76E+01	2.35E+01	1.10E+02	-7.75E+01	0.00E+00	0.00E+00	0.00
		-7.75E+01	2.35E+01	-5.09E-11	-2.03E+01	-6.58E+01	6.41E+01	2.35E+01	9.19E+01	-7.75E+01	0.00E+00	0.00E+00	0.00
	38	-7.75E+01	2.35E+01	-5.09E-11	-2.03E+01	-6.58E+01	4.06E+01	2.35E+01	7.73E+01	-7.75E+01	0.00E+00	0.00E+00	0.00
39	38	6.58E+01	-2.03E+01	2.46E-11	2.03E+01	6.58E+01	-4.06E+01	2.03E+01	7.73E+01	-6.58E+01	0.00E+00	0.00E+00	0.00
		-6.58E+01	2.03E+01	-2.46E-11	-2.03E+01	-6.58E+01	2.03E+01	2.03E+01	6.89E+01	-6.58E+01	0.00E+00	0.00E+00	0.00
	39	-6.58E+01	2.03E+01	-2.46E-11	-2.03E+01	-6.58E+01	-7.28E-12	2.03E+01	6.58E+01	-6.58E+01	0.00E+00	0.00E+00	0.00
40	39	0.00E+00	-2.03E+01	-6.58E+01	0.00E+00	6.58E+01	-2.03E+01	6.89E+01	6.89E+01	0.00E+00	0.00E+00	0.00E+00	0.00
		0.00E+00	2.03E+01	6.58E+01	0.00E+00	-3.29E+01	1.02E+01	6.89E+01	3.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00
	40	0.00E+00	2.03E+01	6.58E+01	0.00E+00	0.00E+00	-1.89E-11	6.89E+01	1.89E-11	0.00E+00	0.00E+00	0.00E+00	0.00
41	41	4.88E+00	-1.30E+00	-3.93E+00	-8.43E-01	-1.33E+01	-4.06E+01	4.14E+00	4.27E+01	-1.40E+01	-5.23E+02	-1.59E+03	0.00
		-4.88E+00	1.30E+00	3.93E+00	8.43E-01	2.35E+01	3.72E+01	4.14E+00	4.40E+01	-1.40E+01	9.21E+02	1.46E+03	0.00
	42	-4.88E+00	1.30E+00	3.93E+00	8.43E-01	3.36E+01	3.38E+01	4.14E+00	4.77E+01	-1.40E+01	1.32E+03	1.33E+03	0.00
42	42	4.88E+00	-1.30E+00	-3.93E+00	-8.43E-01	-3.36E+01	-3.38E+01	4.14E+00	4.77E+01	-1.40E+01	-1.32E+03	-1.33E+03	0.00
		-4.88E+00	1.30E+00	3.93E+00	8.43E-01	4.37E+01	3.05E+01	4.14E+00	5.33E+01	-1.40E+01	1.72E+03	1.20E+03	0.00
	43	-4.88E+00	1.30E+00	3.93E+00	8.43E-01	5.39E+01	2.71E+01	4.14E+00	6.03E+01	-1.40E+01	2.11E+03	1.07E+03	0.00
43	43	4.88E+00	-1.30E+00	-3.93E+00	-8.43E-01	-5.39E+01	-2.71E+01	4.14E+00	6.03E+01	-1.40E+01	-2.11E+03	-1.07E+03	0.00
		-4.88E+00	1.30E+00	3.93E+00	8.43E-01	6.40E+01	2.38E+01	4.14E+00	6.83E+01	-1.40E+01	2.51E+03	9.34E+02	0.00
	44	-4.88E+00	1.30E+00	3.93E+00	8.43E-01	7.41E+01	2.04E+01	4.14E+00	7.69E+01	-1.40E+01	2.91E+03	8.02E+02	0.00
44	44	4.88E+00	-1.30E+00	1.88E+01	-8.43E-01	-7.41E+01	-2.04E+01	1.88E+01	7.69E+01	-1.40E+01	-2.91E+03	-8.02E+02	0.00
		-4.88E+00	1.30E+00	-1.88E+01	8.43E-01	2.57E+01	1.71E+01	1.88E+01	3.08E+01	-1.40E+01	1.01E+03	6.70E+02	0.00
	45	-4.88E+00	1.30E+00	-1.88E+01	8.43E-01	-2.27E+01	1.37E+01	1.88E+01	2.66E+01	-1.40E+01	-8.93E+02	5.38E+02	0.00
45	45	4.88E+00	-1.30E+00	-6.36E+00	-8.43E-01	2.27E+01	-1.37E+01	6.49E+00	2.66E+01	-1.40E+01	8.93E+02	-5.38E+02	0.00
		-4.88E+00	1.30E+00	6.36E+00	8.43E-01	-6.37E+00	1.04E+01	6.49E+00	1.22E+01	-1.40E+01	-2.50E+02	4.07E+02	0.00
	46	-4.88E+00	1.30E+00	6.36E+00	8.43E-01	1.00E+01	7.00E+00	6.49E+00	1.22E+01	-1.40E+01	3.93E+02	2.75E+02	0.00
46	46	4.88E+00	-1.30E+00	3.26E+00	-8.43E-01	-1.00E+01	-7.00E+00	3.51E+00	1.22E+01	-1.40E+01	-3.93E+02	-2.75E+02	0.00
		-4.88E+00	1.30E+00	-3.26E+00	8.43E-01	1.61E+00	3.65E+00	3.51E+00	3.99E+00	-1.40E+01	6.32E+01	1.43E+02	0.00
	47	-4.88E+00	1.30E+00	-3.26E+00	8.43E-01	-6.79E+00	2.95E-01	3.51E+00	6.80E+00	-1.40E+01	-2.67E+02	1.16E+01	0.00
47	47	4.88E+00	-1.30E+00	-2.43E+00	-8.43E-01	6.79E+00	-2.95E-01	2.76E+00	6.80E+00	-1.40E+01	2.67E+02	-1.16E+01	0.00
		-4.88E+00	1.30E+00	2.43E+00	8.43E-01	-5.23E-01	-3.06E+00	2.76E+00	3.10E+00	-1.40E+01	-2.05E+01	-1.20E+02	0.00
	48	-4.88E+00	1.30E+00	2.43E+00	8.43E-01	5.74E+00	-6.42E+00	2.76E+00	8.61E+00	-1.40E+01	2.25E+02	-2.52E+02	0.00
48	48	4.88E+00	-1.30E+00	1.98E+00	-8.43E-01	-5.74E+00	6.42E+00	2.37E+00	8.61E+00	-1.40E+01	-2.25E+02	2.52E+02	0.00
		-4.88E+00	1.30E+00	-1.98E+00	8.43E-01	6.32E-01	-9.77E+00	2.37E+00	9.79E+00	-1.40E+01	2.48E+01	-3.84E+02	0.00
	49	-4.88E+00	1.30E+00	-1.98E+00	8.43E-01	-4.48E+00	-1.31E+01	2.37E+00	1.39E+01	-1.40E+01	-1.76E+02	-5.15E+02	0.00

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49	49	4.88E+00	-1.30E+00	-8.90E-01	-8.43E-01	4.48E+00	1.31E+01	1.58E+00	1.39E+01	-1.40E+01	1.76E+02	5.15E+02	0.00
		-4.88E+00	1.30E+00	8.90E-01	8.43E-01	-2.19E+00	-1.65E+01	1.58E+00	1.66E+01	-1.40E+01	-8.58E+01	-6.47E+02	0.00
	50	-4.88E+00	1.30E+00	8.90E-01	8.43E-01	1.07E-01	-1.98E+01	1.58E+00	1.98E+01	-1.40E+01	4.19E+00	-7.79E+02	0.00
50	50	4.88E+00	-1.30E+00	-7.60E-01	-8.43E-01	-1.07E-01	1.98E+01	1.51E+00	1.98E+01	-1.40E+01	-4.19E+00	7.79E+02	0.00
		-4.88E+00	1.30E+00	7.60E-01	8.43E-01	2.06E+00	-2.32E+01	1.51E+00	2.33E+01	-1.40E+01	8.10E+01	-9.10E+02	0.00
	51	-4.88E+00	1.30E+00	7.60E-01	8.43E-01	4.02E+00	-2.65E+01	1.51E+00	2.68E+01	-1.40E+01	1.58E+02	-1.04E+03	0.00
51	51	4.88E+00	-1.30E+00	1.56E+00	-8.43E-01	-4.02E+00	2.65E+01	2.03E+00	2.68E+01	-1.40E+01	-1.58E+02	1.04E+03	0.00
		-4.88E+00	1.30E+00	-1.56E+00	8.43E-01	1.14E-02	-2.99E+01	2.03E+00	2.99E+01	-1.40E+01	4.49E-01	-1.17E+03	0.00
	52	-4.88E+00	1.30E+00	-1.56E+00	8.43E-01	-4.00E+00	-3.33E+01	2.03E+00	3.35E+01	-1.40E+01	-1.57E+02	-1.31E+03	0.00
52	52	4.88E+00	-1.30E+00	-7.32E-01	-8.43E-01	4.00E+00	3.33E+01	1.49E+00	3.35E+01	-1.40E+01	1.57E+02	1.31E+03	0.00
		-4.88E+00	1.30E+00	7.32E-01	8.43E-01	-2.11E+00	-3.66E+01	1.49E+00	3.67E+01	-1.40E+01	-8.30E+01	-1.44E+03	0.00
	53	-4.88E+00	1.30E+00	7.32E-01	8.43E-01	-2.27E-01	-4.00E+01	1.49E+00	4.00E+01	-1.40E+01	-8.93E+00	-1.57E+03	0.00
53	53	4.88E+00	-1.30E+00	-1.01E+00	-8.43E-01	2.27E-01	4.00E+01	1.65E+00	4.00E+01	-1.40E+01	8.93E+00	1.57E+03	0.00
		-4.88E+00	1.30E+00	1.01E+00	8.43E-01	2.37E+00	-4.33E+01	1.65E+00	4.34E+01	-1.40E+01	9.32E+01	-1.70E+03	0.00
	54	-4.88E+00	1.30E+00	1.01E+00	8.43E-01	4.97E+00	-4.67E+01	1.65E+00	4.69E+01	-1.40E+01	1.95E+02	-1.83E+03	0.00
54	54	4.88E+00	-1.30E+00	2.47E+00	-8.43E-01	-4.97E+00	4.67E+01	2.79E+00	4.69E+01	-1.40E+01	-1.95E+02	1.83E+03	0.00
		-4.88E+00	1.30E+00	-2.47E+00	8.43E-01	-1.38E+00	-5.00E+01	2.79E+00	5.00E+01	-1.40E+01	-5.44E+01	-1.96E+03	0.00
	55	-4.88E+00	1.30E+00	-2.47E+00	8.43E-01	-7.74E+00	-5.34E+01	2.79E+00	5.39E+01	-1.40E+01	-3.04E+02	-2.10E+03	0.00
55	55	4.88E+00	-1.30E+00	-4.39E+00	-8.43E-01	7.74E+00	5.34E+01	4.57E+00	5.39E+01	-1.40E+01	3.04E+02	2.10E+03	0.00
		-4.88E+00	1.30E+00	4.39E+00	8.43E-01	3.56E+00	-5.67E+01	4.57E+00	5.69E+01	-1.40E+01	1.40E+02	-2.23E+03	0.00
	56	-4.88E+00	1.30E+00	4.39E+00	8.43E-01	1.49E+01	-6.01E+01	4.57E+00	6.19E+01	-1.40E+01	5.83E+02	-2.36E+03	0.00
56	56	4.88E+00	-1.30E+00	1.11E+01	-8.43E-01	-1.49E+01	6.01E+01	1.12E+01	6.19E+01	-1.40E+01	-5.83E+02	2.36E+03	0.00
		-4.88E+00	1.30E+00	-1.11E+01	8.43E-01	-1.39E+01	-6.34E+01	1.12E+01	6.49E+01	-1.40E+01	-5.44E+02	-2.49E+03	0.00
	57	-4.88E+00	1.30E+00	-1.11E+01	8.43E-01	-4.26E+01	-6.68E+01	1.12E+01	7.92E+01	-1.40E+01	-1.67E+03	-2.62E+03	0.00
57	17	3.12E+00	-3.16E+00	6.62E+01	-1.85E+01	-1.59E+02	9.35E-02	6.63E+01	1.59E+02	-3.12E+00	0.00E+00	0.00E+00	0.00
		-3.12E+00	3.16E+00	-6.62E+01	1.85E+01	4.27E+01	-5.62E+00	6.63E+01	4.31E+01	-3.12E+00	0.00E+00	0.00E+00	0.00
	57	-3.12E+00	3.16E+00	-6.62E+01	1.85E+01	-7.32E+01	-1.11E+01	6.63E+01	7.40E+01	-3.12E+00	0.00E+00	0.00E+00	0.00
58	57	7.13E+01	-3.20E+00	1.55E-11	1.46E-11	5.96E+01	-6.40E+00	3.20E+00	5.99E+01	-7.13E+01	0.00E+00	0.00E+00	0.00
		-7.13E+01	3.20E+00	-1.55E-11	-1.46E-11	-5.96E+01	3.20E+00	3.20E+00	5.97E+01	-7.13E+01	0.00E+00	0.00E+00	0.00
	58	-7.13E+01	3.20E+00	-1.55E-11	-1.46E-11	-5.96E+01	-3.64E-12	3.20E+00	5.96E+01	-7.13E+01	0.00E+00	0.00E+00	0.00
59	58	5.96E+01	-1.18E-11	5.73E-11	1.46E-11	5.96E+01	-3.64E-12	5.85E-11	5.96E+01	-5.96E+01	0.00E+00	0.00E+00	0.00
		-5.96E+01	1.18E-11	-5.73E-11	-1.46E-11	-5.96E+01	-7.28E-12	5.85E-11	5.96E+01	-5.96E+01	0.00E+00	0.00E+00	0.00
	59	-5.96E+01	1.18E-11	-5.73E-11	-1.46E-11	-5.96E+01	-1.09E-11	5.85E-11	5.96E+01	-5.96E+01	0.00E+00	0.00E+00	0.00
60	59	0.00E+00	4.13E-12	-5.96E+01	0.00E+00	5.96E+01	-3.59E-12	5.96E+01	5.96E+01	0.00E+00	0.00E+00	0.00E+00	0.00
		0.00E+00	-4.13E-12	5.96E+01	0.00E+00	-2.98E+01	4.85E-12	5.96E+01	2.98E+01	0.00E+00	0.00E+00	0.00E+00	0.00
	60	0.00E+00	-4.13E-12	5.96E+01	0.00E+00	1.09E-11	7.72E-12	5.96E+01	1.34E-11	0.00E+00	0.00E+00	0.00E+00	0.00

SUMMARY = 1 ********** [02-27- 9 21:58:17]EDP-PAGE = 26

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WINZLER & KELLY
CONSULTING ENGINEERS
417 Montgomery St., Suite 700
San Francisco, CA 94104
(415) 283-4970

By L. Lewis Date 2/09 Client Port of Portland Sheet No. F14 of 39

Subject T4 Utilities BRIDGE Job No. 10R6409002

Piles

Controlling condition for piles is with 12" lateral spreading and pile cap is EQ perpendicular to bridge axis.

The piles are analyzed for this condition in Analysis Pile type

Max. pile stress occurs when pile connects to pile cap.

$P_{axial} = 98.9$ K $M_y = 43.6$ ft-k $M_x = 66.0$ ft-k

$M_{res} = 79.1$ ft-k

Pile Section 12 3/4" Φ O.D. x 0.375" wall $D/t = \frac{12.75}{.375} = 34$

$A = 14.6$ in² $S = 43.8$ in³ $Z = \frac{12.75^3}{6} - \frac{12.0^3}{6} = 57.49$

$r = 4.82$ in

$f_a = 98.9 / 14.6 = 6.77$ ksi $f_b = \frac{79.8 \times 12}{43.8} = 21.3$ ksi

use A252 GRADE 3 pipe piles $F_y = 45$ ksi

Limiting $D/t_{comp} = .11\, E/F_y = .11 \times \frac{29.6 \times 10^3}{45} = 70.9 > 34$

$D/t_{bend} = .07 \times \frac{29.6 \times 10^3}{45} = 46.7 > 34$ $C_c = \left(\frac{2\pi^2 E}{F_y}\right)^{1/2} = \left(\frac{2\pi^2 29 \times 10^6}{45}\right)^{1/2} = 113.9$

$M_n = \frac{45 \times 57.4}{12} = 215.4$ $M_{allow} = \frac{215.4}{1.67} = 129$ ft-k $\frac{M}{M_{allow}} = \frac{79.1}{129} = .61$

$F_a = \frac{\left[1 - \frac{(KL/r)^2}{2C_c^2}\right] F_y}{5/3 + 3/8 \frac{KL/r}{C_c} - \frac{(KL/r)^3}{8C_c^3}} = \frac{\left[1 - \frac{(49.5)^2}{2(113.9)^2}\right] 45}{5/3 + 3/8 \frac{(49.5)}{113.9} - \frac{(49.5)^3}{8 \times 113.9^3}} = 22.35$ ksi $\frac{KL}{r} = \frac{20 \times 12}{4.82} = 49.5$

$\frac{f_a}{F_a} = \frac{6.77}{22.35} = .30$ $.30 + .61 = .91 < 1.0$ OK

Bridge Analysis for pile cap design analysis

F 15/34

popbree.in

$1.2(1+.14S_{DS})D + \rho Q_E$

```
AHALF
AHEAD  POP T4 Pipe Bridge
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                  ----------> X-DIR Centerline Bridge
AHEAD                  |
AHEAD                  |
AHEAD                  |
AHEAD                  |
AHEAD                  V
AHEAD                Z-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________
* LOADS DEFINITION
*_____________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)
BLOAD    2    0 Walkway Dead Load
*
BWATR   -Y    -100.0     0.064        1.      32.2        1.
*
*_____________________________________________________
* NODES DEFINITION
*_____________________________________________________
*  Bottom Truss Nodes
CNODE  100    -50.00     -5.00     -4.50
CNODE  101    -40.00     -5.00     -4.50
CNODE  102    -30.00     -5.00     -4.50
CNODE  103    -20.00     -5.00     -4.50
CNODE  104    -10.00     -5.00     -4.50
CNODE  105      0.00     -5.00     -4.50
CNODE  106     10.00     -5.00     -4.50
CNODE  107     20.00     -5.00     -4.50
CNODE  108     30.00     -5.00     -4.50
CNODE  109     40.00     -5.00     -4.50
CNODE  110     50.00     -5.00     -4.50
CNODE  120    -50.00     -5.00      4.50
CNODE  121    -40.00     -5.00      4.50
CNODE  122    -30.00     -5.00      4.50
CNODE  123    -20.00     -5.00      4.50
CNODE  124    -10.00     -5.00      4.50
CNODE  125      0.00     -5.00      4.50
CNODE  126     10.00     -5.00      4.50
CNODE  127     20.00     -5.00      4.50
CNODE  128     30.00     -5.00      4.50
CNODE  129     40.00     -5.00      4.50
CNODE  130     50.00     -5.00      4.50
CNODE  200    -50.00      0.00     -4.50
CNODE  202    -30.00      0.00     -4.50
CNODE  204    -10.00      0.00     -4.50
CNODE  206     10.00      0.00     -4.50
CNODE  208     30.00      0.00     -4.50
CNODE  210     50.00      0.00     -4.50
CNODE  220    -50.00      0.00      4.50
CNODE  222    -30.00      0.00      4.50
CNODE  224    -10.00      0.00      4.50
CNODE  226     10.00      0.00      4.50
CNODE  228     30.00      0.00      4.50
CNODE  230     50.00      0.00      4.50
CNODE  300    -50.00      5.00     -4.50
CNODE  301    -40.00      5.00     -4.50
CNODE  302    -30.00      5.00     -4.50
CNODE  303    -20.00      5.00     -4.50
CNODE  304    -10.00      5.00     -4.50
CNODE  305      0.00      5.00     -4.50
CNODE  306     10.00      5.00     -4.50
CNODE  307     20.00      5.00     -4.50
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CNODE  308    30.00     5.00    -4.50
CNODE  309    40.00     5.00    -4.50
CNODE  310    50.00     5.00    -4.50
CNODE  320   -50.00     5.00     4.50
CNODE  321   -40.00     5.00     4.50
CNODE  322   -30.00     5.00     4.50
CNODE  323   -20.00     5.00     4.50
CNODE  324   -10.00     5.00     4.50
CNODE  325     0.00     5.00     4.50
CNODE  326    10.00     5.00     4.50
CNODE  327    20.00     5.00     4.50
CNODE  328    30.00     5.00     4.50
CNODE  329    40.00     5.00     4.50
CNODE  330    50.00     5.00     4.50
CNODE  351   -50.00     5.00    -2.25
CNODE  352   -30.00     5.00    -2.25
CNODE  354   -10.00     5.00    -2.25
CNODE  356    10.00     5.00    -2.25
CNODE  358    30.00     5.00    -2.25
CNODE  360    50.00     5.00    -2.25
CNODE  361   -50.00     5.00     0.00
CNODE  362   -30.00     5.00     0.00
CNODE  364   -10.00     5.00     0.00
CNODE  366    10.00     5.00     0.00
CNODE  368    30.00     5.00     0.00
CNODE  370    50.00     5.00     0.00
CNODE  371   -50.00     5.00     2.25
CNODE  372   -30.00     5.00     2.25
CNODE  374   -10.00     5.00     2.25
CNODE  376    10.00     5.00     2.25
CNODE  378    30.00     5.00     2.25
CNODE  380    50.00     5.00     2.25
CNODE  400   -50.00    -5.00    -2.25
CNODE  402   -30.00    -5.00    -2.25
CNODE  404   -10.00    -5.00    -2.25
CNODE  406    10.00    -5.00    -2.25
CNODE  408    30.00    -5.00    -2.25
CNODE  410    50.00    -5.00    -2.25
CNODE  500   -50.00    -5.00     0.00
CNODE  502   -30.00    -5.00     0.00
CNODE  504   -10.00    -5.00     0.00
CNODE  506    10.00    -5.00     0.00
CNODE  508    30.00    -5.00     0.00
CNODE  510    50.00    -5.00     0.00
CNODE  600   -50.00    -5.00     2.25
CNODE  602   -30.00    -5.00     2.25
CNODE  604   -10.00    -5.00     2.25
CNODE  606    10.00    -5.00     2.25
CNODE  608    30.00    -5.00     2.25
CNODE  610    50.00    -5.00     2.25
CNODE  700   -50.00     0.00    -2.25
CNODE  702   -30.00     0.00    -2.25
CNODE  704   -10.00     0.00    -2.25
CNODE  706    10.00     0.00    -2.25
CNODE  708    30.00     0.00    -2.25
CNODE  710    50.00     0.00    -2.25
CNODE  800   -50.00     0.00     0.00
CNODE  802   -30.00     0.00     0.00
CNODE  804   -10.00     0.00     0.00
CNODE  806    10.00     0.00     0.00
CNODE  808    30.00     0.00     0.00
CNODE  810    50.00     0.00     0.00
CNODE  900   -50.00     0.00     2.25
CNODE  902   -30.00     0.00     2.25
CNODE  904   -10.00     0.00     2.25
CNODE  906    10.00     0.00     2.25
CNODE  908    30.00     0.00     2.25
CNODE  910    50.00     0.00     2.25
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX   100   0   2   2   0   0   0
DFIX   110   2   2   2   0   0   0
DFIX   120   0   2   0   0   0   0
DFIX   130   0   2   0   0   0   0
*
*_____________________________________________
* MATERIAL PROPERTIES
```

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*
EBEAM BRIDGE
* MATERIAL          E     POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.      0.30      0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.      0.30      22.30    7200.0
*
*
* MEMBER PROPERTIES
*
*                    Ax        Ay        Az        Ix        Iy        Iz    dy    dz
* WT5x11 section (strong axis = z axis) vert diagonal
EBSEC    3     .0225     0.395     0.639    0.0001   0.00027   0.00033 0.34 0.24
*
* W6x20 section (strong axis = z axis) support beams, chords
EBSEC    1    0.0408     0.260     0.750    0.0001   0.00064    0.0020 0.26 0.25
*
* W 6x15 section (strong axis = y axis)vertical braces at support beams
EBSEC    2    0.0308     0.340     0.680    0.0001    0.0014   0.00045 0.25 0.25
*
* WT4x6.5 section (strong axis = z axis)vertical braces
EBSEC    4    0.0133     0.520     0.520    0.0001   0.00014   0.00007 0.25 0.17
*
* WT4x9  section (strong axis = y axis)horiz braces
EBSEC    6    0.0183     0.660     0.400    0.0001   0.00020   0.00019 0.22 0.27
*
* WT4x6.5 section (strong axis = y axis)
EBSEC    5    0.0133     0.520     0.520    0.0001   0.00007   0.00014 0.17 0.25
*
* W 6x15 section (strong axis = z axis)vertical braces at support beams
EBSEC    7    0.0308     0.680     0.340    0.0001   0.00045   0.00140 0.25 0.25
*
* WT5x15  section (strong axis = z axis)vertical braces
EBSEC    8    0.0310     0.360     0.660    0.0001   0.00040   0.00045 0.34 0.24
*
* W6x12  section (strong axis = z axis)bottom horiz braces
EBSEC    9    0.0250     0.420     0.560    0.0001   0.00010   0.00011 0.25 0.17
*
* Uniform Member Loads
*
* Operational Loading #1
*EBFGG   45 0.50  0.0                        -273.000
*
* MEMBER DEFINITIONS
*
*
EBMEM    1  100  121        1    6    0    000011    000011
EBMEM    2  102  121        1    6    0    000011    000011
EBMEM    3  102  123        1    6    0    000011    000011
EBMEM    4  104  123        1    6    0    000011    000011
EBMEM    5  104  125        1    6    0    000011    000011
EBMEM    6  106  125        1    6    0    000011    000011
EBMEM    7  106  127        1    6    0    000011    000011
EBMEM    8  108  127        1    6    0    000011    000011
EBMEM    9  108  129        1    6    0    000011    000011
EBMEM   10  110  129        1    6    0    000011    000011
EBMEM   11  300  321        1    6    0    000011    000011
EBMEM   12  302  321        1    6    0    000011    000011
EBMEM   13  302  323        1    6    0    000011    000011
EBMEM   14  304  323        1    6    0    000011    000011
EBMEM   15  304  325        1    6    0    000011    000011
EBMEM   16  306  325        1    6    0    000011    000011
EBMEM   17  306  327        1    6    0    000011    000011
EBMEM   18  308  327        1    6    0    000011    000011
EBMEM   19  308  329        1    6    0    000011    000011
EBMEM   20  310  329        1    6    0    000011    000011
EBMEM   21  100  400        2    1    0    000000    000000
EBMEM   22  102  402        2    1    0    000000    000000
EBMEM   23  104  404        2    1    0    000000    000000
EBMEM   24  106  406        2    1    0    000000    000000
EBMEM   25  108  408        2    1    0    000000    000000
EBMEM   26  110  410        2    1    0    000000    000000
EBMEM  210  400  500        2    1    0    000000    000000
EBMEM  220  402  502        2    1    0    000000    000000
EBMEM  230  404  504        2    1    0    000000    000000
EBMEM  240  406  506        2    1    0    000000    000000
EBMEM  250  408  508        2    1    0    000000    000000
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EBMEM	260	410	510	2	1	0	000000	000000
EBMEM	211	500	600	2	1	0	000000	000000
EBMEM	221	502	602	2	1	0	000000	000000
EBMEM	231	504	604	2	1	0	000000	000000
EBMEM	241	506	606	2	1	0	000000	000000
EBMEM	251	508	608	2	1	0	000000	000000
EBMEM	261	510	610	2	1	0	000000	000000
EBMEM	212	600	120	2	1	0	000000	000000
EBMEM	222	602	122	2	1	0	000000	000011
EBMEM	232	604	124	2	1	0	000000	000011
EBMEM	242	606	126	2	1	0	000000	000011
EBMEM	252	608	128	2	1	0	000000	000011
EBMEM	262	610	130	2	1	0	000000	000000
EBMEM	31	300	351	2	1	0	000000	000000
EBMEM	32	302	352	2	1	0	000011	000000
EBMEM	33	304	354	2	1	0	000011	000000
EBMEM	34	306	356	2	1	0	000011	000000
EBMEM	35	308	358	2	1	0	000011	000000
EBMEM	36	310	360	2	1	0	000000	000000
EBMEM	310	351	361	2	1	0	000000	000000
EBMEM	320	352	362	2	1	0	000000	000000
EBMEM	330	354	364	2	1	0	000000	000000
EBMEM	340	356	366	2	1	0	000000	000000
EBMEM	350	358	368	2	1	0	000000	000000
EBMEM	360	360	370	2	1	0	000000	000000
EBMEM	311	361	371	2	1	0	000000	000000
EBMEM	321	362	372	2	1	0	000000	000000
EBMEM	331	364	374	2	1	0	000000	000000
EBMEM	341	366	376	2	1	0	000000	000000
EBMEM	351	368	378	2	1	0	000000	000000
EBMEM	361	370	380	2	1	0	000000	000000
EBMEM	312	371	320	2	1	0	000000	000000
EBMEM	322	372	322	2	1	0	000000	000011
EBMEM	332	374	324	2	1	0	000000	000011
EBMEM	342	376	326	2	1	0	000000	000011
EBMEM	352	378	328	2	1	0	000000	000011
EBMEM	362	380	330	2	1	0	000000	000000
EBMEM	41	200	700	2	1	0	000000	000000
EBMEM	42	202	702	2	1	0	000011	000000
EBMEM	43	204	704	2	1	0	000011	000000
EBMEM	44	206	706	2	1	0	000011	000000
EBMEM	45	208	708	2	1	0	000011	000000
EBMEM	46	210	710	2	1	0	000000	000000
EBMEM	410	700	800	2	1	0	000000	000000
EBMEM	420	702	802	2	1	0	000000	000000
EBMEM	430	704	804	2	1	0	000000	000000
EBMEM	440	706	806	2	1	0	000000	000000
EBMEM	450	708	808	2	1	0	000000	000000
EBMEM	460	710	810	2	1	0	000000	000000
EBMEM	411	800	900	2	1	0	000000	000000
EBMEM	421	802	902	2	1	0	000000	000000
EBMEM	431	804	904	2	1	0	000000	000000
EBMEM	441	806	906	2	1	0	000000	000000
EBMEM	451	808	908	2	1	0	000000	000000
EBMEM	461	810	910	2	1	0	000000	000000
EBMEM	412	900	220	2	1	0	000000	000000
EBMEM	422	902	222	2	1	0	000000	000011
EBMEM	432	904	224	2	1	0	000000	000011
EBMEM	442	906	226	2	1	0	000000	000011
EBMEM	452	908	228	2	1	0	000000	000011
EBMEM	462	910	230	2	1	0	000000	000000
EBMEM	50	101	121	1	9	0	000000	000000
EBMEM	51	103	123	1	9	0	000000	000000
EBMEM	52	105	125	1	9	0	000000	000000
EBMEM	53	107	127	1	9	0	000000	000000
EBMEM	54	109	129	1	9	0	000000	000000
EBMEM	55	301	321	1	5	0	000000	000000
EBMEM	56	303	323	1	5	0	000000	000000
EBMEM	57	305	325	1	5	0	000000	000000
EBMEM	58	307	327	1	5	0	000000	000000
EBMEM	59	309	329	1	5	0	000000	000000
EBMEM	60	300	301	1	1	0	000000	000000
EBMEM	61	301	302	1	1	0	000000	000000
EBMEM	62	302	303	1	1	0	000000	000000
EBMEM	63	303	304	1	1	0	000000	000000
EBMEM	64	304	305	1	1	0	000000	000000
EBMEM	65	305	306	1	1	0	000000	000000
EBMEM	66	306	307	1	1	0	000000	000000
EBMEM	67	307	308	1	1	0	000000	000000

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EBMEM   68  308  309     1   1   0   000000   000000
EBMEM   69  309  310     1   1   0   000000   000000
EBMEM   70  320  321     1   1   0   000000   000000
EBMEM   71  321  322     1   1   0   000000   000000
EBMEM   72  322  323     1   1   0   000000   000000
EBMEM   73  323  324     1   1   0   000000   000000
EBMEM   74  324  325     1   1   0   000000   000000
EBMEM   75  325  326     1   1   0   000000   000000
EBMEM   76  326  327     1   1   0   000000   000000
EBMEM   77  327  328     1   1   0   000000   000000
EBMEM   78  328  329     1   1   0   000000   000000
EBMEM   79  329  330     1   1   0   000000   000000
EBMEM   80  100  101     1   1   0   000000   000000
EBMEM   81  101  102     1   1   0   000000   000000
EBMEM   82  102  103     1   1   0   000000   000000
EBMEM   83  103  104     1   1   0   000000   000000
EBMEM   84  104  105     1   1   0   000000   000000
EBMEM   85  105  106     1   1   0   000000   000000
EBMEM   86  106  107     1   1   0   000000   000000
EBMEM   87  107  108     1   1   0   000000   000000
EBMEM   88  108  109     1   1   0   000000   000000
EBMEM   89  109  110     1   1   0   000000   000000
EBMEM   90  120  121     1   1   0   000000   000000
EBMEM   91  121  122     1   1   0   000000   000000
EBMEM   92  122  123     1   1   0   000000   000000
EBMEM   93  123  124     1   1   0   000000   000000
EBMEM   94  124  125     1   1   0   000000   000000
EBMEM   95  125  126     1   1   0   000000   000000
EBMEM   96  126  127     1   1   0   000000   000000
EBMEM   97  127  128     1   1   0   000000   000000
EBMEM   98  128  129     1   1   0   000000   000000
EBMEM   99  129  130     1   1   0   000000   000000
EBMEM  100  301  100     1   8   0   000011   000011
EBMEM  102  301  102     1   8   0   000011   000011
*
EBMEM  103  303  102     1   3   0   000011   000011
EBMEM  104  303  104     1   3   0   000011   000011
EBMEM  105  305  104     1   3   0   000011   000011
EBMEM  106  305  106     1   3   0   000011   000011
*
EBMEM  107  307  106     1   3   0   000011   000011
EBMEM  108  307  108     1   3   0   000011   000011
EBMEM  109  309  108     1   8   0   000011   000011
EBMEM  110  309  110     1   8   0   000011   000011
EBMEM  120  321  120     1   8   0   000011   000011
EBMEM  122  321  122     1   8   0   000011   000011
EBMEM  123  323  122     1   3   0   000011   000011
EBMEM  124  323  124     1   3   0   000011   000011
EBMEM  125  325  124     1   3   0   000011   000011
EBMEM  126  325  126     1   3   0   000011   000011
EBMEM  127  327  126     1   3   0   000011   000011
EBMEM  128  327  128     1   3   0   000011   000011
EBMEM  129  329  128     1   8   0   000011   000011
EBMEM  130  329  130     1   8   0   000011   000011
EBMEM  140  301  101     1   4   0   000011   000011
EBMEM  141  303  103     1   4   0   000011   000011
*
EBMEM  142  305  105     1   4   0   000011   000011
EBMEM  143  307  107     1   4   0   000011   000011
EBMEM  144  309  109     1   4   0   000011   000011
EBMEM  150  321  121     1   4   0   000011   000011
EBMEM  151  323  123     1   4   0   000011   000011
EBMEM  152  325  125     1   4   0   000011   000011
EBMEM  153  327  127     1   4   0   000011   000011
EBMEM  154  329  129     1   4   0   000011   000011
EBMEM  160  200  100     1   2   0   000000   000000
EBMEM  161  300  200     1   2   0   000000   000000
EBMEM  162  202  102     1   7   0   000000   000011
EBMEM  163  302  202     1   7   0   000011   000000
EBMEM  164  204  104     1   7   0   000000   000011
EBMEM  165  304  204     1   7   0   000011   000000
EBMEM  166  206  106     1   7   0   000000   000011
*
EBMEM  167  306  206     1   7   0   000011   000000
EBMEM  168  208  108     1   7   0   000000   000011
EBMEM  169  308  208     1   7   0   000011   000000
EBMEM  170  210  110     1   2   0   000000   000000
EBMEM  171  310  210     1   2   0   000000   000000
EBMEM  180  220  120     1   2   0   000000   000000
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EBMEM  181  320  220        1    2    0    000000    000000
EBMEM  182  222  122        1    7    0    000000    000011
EBMEM  183  322  222        1    7    0    000011    000000
EBMEM  184  224  124        1    7    0    000000    000011
EBMEM  185  324  224        1    7    0    000011    000000
EBMEM  186  226  126        1    7    0    000000    000011
*
EBMEM  187  326  226        1    7    0    000011    000000
EBMEM  188  228  128        1    7    0    000000    000011
EBMEM  189  328  228        1    7    0    000011    000000
EBMEM  190  230  130        1    2    0    000000    000000
EBMEM  191  330  230        1    2    0    000000    000000
*
FLOAD  101    2          0.000    -0.680     0.000     -1.53      0.0      0.00
FLOAD  102    2          0.000    -0.680               -1.53
FLOAD  103    2                   -0.680               -1.53
FLOAD  104    2                   -0.680               -1.53
FLOAD  105    2                   -0.680               -1.53
FLOAD  106    2                   -0.680               -1.53
FLOAD  107    2                   -0.680               -1.53
FLOAD  108    2                   -0.680               -1.53
FLOAD  109    2                   -0.680               -1.53
FLOAD  100    2                   -0.680               -0.76
FLOAD  110    2                   -0.680               -0.76
*
FSUMM    0
*
*_____________________________________________________________
* LOAD COMBINATION
*_____________________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1          1.28
FCASE    1    2          1.28
*FCASE    1   10          0.00
*FCASE    1   32          0.00
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*_____________________________________________________________
* MASS DISTRIBUTION
*_____________________________________________________________
* Upper Deck
GMASS  101    0          0.018     0.018     0.018
GMASS  102    0          0.018     0.018     0.018
GMASS  103    0          0.018     0.018     0.018
GMASS  104    0          0.018     0.018     0.018
GMASS  105    0          0.018     0.018     0.018
GMASS  106    0          0.018     0.018     0.018
GMASS  107    0          0.018     0.018     0.018
GMASS  108    0          0.018     0.018     0.018
GMASS  109    0          0.018     0.018     0.018
*
GSUMM    0
*
GSCAL    0       1.0       1.0       1.0       1.0       1.0
*
*    ** RESPONSE SPECTRAL CURVE **
*    API C2.3.6c
*    Soils profile Type B, Zone 4, G=0.25
*
GCURV    1     0.010    0.5900                32.17
GCURV          0.100    0.5900
GCURV          0.210    0.5900
GCURV          0.400    0.5900
GCURV          0.600    0.5900
GCURV          0.800    0.5900
GCURV          1.030    0.5900
GCURV          1.200    0.5100
GCURV          1.400    0.4400
GCURV          1.600    0.3800
GCURV          2.000    0.3100
GCURV          4.000    0.1500
*
GRESP    1 +CQC         1 1.00                      0.05
GRESP    1 -CQC         1 1.00                      0.05
GRESP    1 +CQC                                1 0.88 0.05
```

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```
GRESP    1 -CQC                                  1 0.88 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*      8700-8706
*#END
*
*_____________________________________________________
* ANALYSIS REQUEST
*_____________________________________________________
* Linear Static Analysis
ZSTAT    3    3    0
*
* Eigensolution (65 modes)
ZEIGN   65    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP    3    3    0              60    0    0
*
** Non-linear static pushover analysis
*ZPUSH    2    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                 1.0
**
*ZPUSH    5    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                           1.0
*
**
*ZSNAP    0    2    0              2
*_____________________________________________________
* PLOT REQUEST
*_____________________________________________________
*ZPLOT    1    1    0    0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                0.00      0.10      1.00      0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*       END
**
*ZPLOT    1    1    0    0    0             'OSPREY' PRODUCTION STRUCTURE
*                1.00      1.00      1.00      0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      PAGE
*      MODE              1
*      PAGE
*      MODE              2
*      PAGE
*      MODE              3
*      PAGE
*      MODE              4
*      PAGE
*      MODE              5
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' DECK STRUCTURE
*                0.00      0.00      1.00      0.00      1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
***
ZPLOT    1    1    0    0    0             'OSPREY' DECK STRUCTURE
                1.00      0.001     0.00      0.00      1.00      0.00
                1.00      1.00      1.00
      UNDF
      END
***
```

SEISMIC = 6 POP T4 Pipe Bridge [02-27- 9 20:59:28]EDP-PAGE = 36

.....SEISMIC NODE REACTIONS

NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	DEGREE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
100	1	0.0000E+00	-5.2757E+01	7.6178E+00	-5.28E+01	7.62E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	1	5.7858E+01	-5.1157E+01	8.7862E+00	-5.12E+01	5.85E+01	81.37	0.0000E+00	0.0000E+00	0.0000E+00
120	1	0.0000E+00	-4.7617E+01	0.0000E+00	-4.76E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	1	0.0000E+00	-4.7646E+01	0.0000E+00	-4.76E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	1	5.7858E+01	-1.9918E+02	1.6404E+01	-1.99E+02	6.01E+01	74.17	0.0000E+00	0.0000E+00	0.0000E+00
100	2	0.0000E+00	-6.5056E+01	-7.6178E+00	-6.51E+01	7.62E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	2	-5.7858E+01	-6.6655E+01	-8.7862E+00	-6.67E+01	5.85E+01	81.37	0.0000E+00	0.0000E+00	0.0000E+00
120	2	0.0000E+00	-5.6273E+01	0.0000E+00	-5.63E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	2	0.0000E+00	-5.6243E+01	0.0000E+00	-5.62E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	2	-5.7858E+01	-2.4423E+02	-1.6404E+01	-2.44E+02	6.01E+01	74.17	0.0000E+00	0.0000E+00	0.0000E+00
100	3	0.0000E+00	-3.5613E+01	2.9264E+01	-3.56E+01	2.93E+01	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	3	1.3156E+01	-3.5884E+01	2.8868E+01	-3.59E+01	3.17E+01	24.50	0.0000E+00	0.0000E+00	0.0000E+00
120	3	0.0000E+00	-2.9233E+01	0.0000E+00	-2.92E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	3	0.0000E+00	-2.9186E+01	0.0000E+00	-2.92E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	3	1.3156E+01	-1.2992E+02	5.8132E+01	-1.30E+02	5.96E+01	12.75	0.0000E+00	0.0000E+00	0.0000E+00
100	4	0.0000E+00	-8.2200E+01	-2.9264E+01	-8.22E+01	2.93E+01	0.00	0.0000E+00	0.0000E+00	0.0000E+00
110	4	-1.3156E+01	-8.1929E+01	-2.8868E+01	-8.19E+01	3.17E+01	24.50	0.0000E+00	0.0000E+00	0.0000E+00
120	4	0.0000E+00	-7.4656E+01	0.0000E+00	-7.47E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
130	4	0.0000E+00	-7.4703E+01	0.0000E+00	-7.47E+01	0.00E+00	0.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	4	-1.3156E+01	-3.1349E+02	-5.8132E+01	-3.13E+02	5.96E+01	12.75	0.0000E+00	0.0000E+00	0.0000E+00

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Pile & Pile Cap Analysis w/ 1'-0 pile cap lateral displacement + seismic bridge reaction. F23/34

1.2 (1.0+.14 S_{DS}) D + ρ QE

Pile cap forces from this analysis are used for pile cap design


```
AHALF
AHEAD ***********************************************************
AHEAD        POP T4 BRIDGE PILE CAP
AHEAD ***********************************************************
AHEAD
AHEAD ***********************************************************
AHEAD    THIS MODEL EVALUATES THE PILES WHEN SUBJECTED TO
AHEAD    A FORCED 1' PILE CAP DISPLACEMENT TOWARD THE PIER WHEN
AHEAD    ALSO SUBJECTED TO A SEISMIC LATERAL LOAD
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD    FILE:  PILE XYZ.IN
AHEAD ***********************************************************
AHEAD
*APRIN    A    B    C    D    E    F    H
*ANOPR
***********************************************************
*     LOAD SPECIFICATION
***********************************************************
*
BLOAD    1    0
BLOAD    2    0
***********************************************************
*     DIRECTION OF GRAVITY AND WATER DEPTH
***********************************************************
*
BWATR   -Z     -100.      .064        1.       32.2        1.
*
***********************************************************
* PILE COORDINATES
***********************************************************
*
CNODE    1       0.0       0.0     -50.0
CNODE    2       0.0       0.0     -45.0
CNODE    3       0.0       0.0     -40.0
CNODE    4       0.0       0.0     -35.0
CNODE    5       0.0       0.0     -30.0
CNODE    6       0.0       0.0     -25.0
CNODE    7       0.0       0.0     -20.0
CNODE    8       0.0       0.0     -15.0
CNODE    9       0.0       0.0     -10.0
CNODE   10       0.0       0.0      -5.0
CNODE   11       0.0       0.0       0.0
CNODE   12       0.0       0.0       5.0
CNODE   13       0.0       0.0      10.0
CNODE   14       0.0       0.0      15.0
CNODE   15       0.0       0.0      20.0
CNODE   16       0.0       0.0      25.0
CNODE   17       0.0       0.0      30.0
CNODE   21       0.0     23.50     -50.0
CNODE   22       0.0     22.25     -45.0
CNODE   23       0.0     21.00     -40.0
CNODE   24       0.0     19.75     -35.0
CNODE   25       0.0     18.50     -30.0
CNODE   26       0.0     17.25     -25.0
CNODE   27       0.0     16.00     -20.0
CNODE   28       0.0     14.75     -15.0
CNODE   29       0.0     13.50     -10.0
CNODE   30       0.0     12.25      -5.0
CNODE   31       0.0     11.00       0.0
CNODE   32       0.0      9.75       5.0
CNODE   33       0.0      8.50      10.0
CNODE   34       0.0      7.25      15.0
CNODE   35       0.0      6.00      20.0
CNODE   36       0.0      4.75      25.0
CNODE   37       0.0      3.50      30.0
CNODE   38       0.0      3.50      32.0
CNODE   39       0.0      3.50      34.0
CNODE   40      -1.0      3.50      34.0
CNODE   41       0.0    -23.50     -50.0
CNODE   42       0.0    -22.25     -45.0
CNODE   43       0.0    -21.00     -40.0
CNODE   44       0.0    -19.75     -35.0
CNODE   45       0.0    -18.50     -30.0
CNODE   46       0.0    -17.25     -25.0
CNODE   47       0.0    -16.00     -20.0
CNODE   48       0.0    -14.75     -15.0
CNODE   49       0.0    -13.50     -10.0
CNODE   50       0.0    -12.25      -5.0
CNODE   51       0.0    -11.00       0.0
CNODE   52       0.0     -9.75       5.0
CNODE   53       0.0     -8.50      10.0
```

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```
CNODE   54      0.0     -7.25     15.0
CNODE   55      0.0     -6.00     20.0
CNODE   56      0.0     -4.75     25.0
CNODE   57      0.0     -3.50     30.0
CNODE   58      0.0     -3.50     32.0
CNODE   59      0.0     -3.50     34.0
CNODE   60     -1.0     -3.50     34.0
*
CRSEQ
CSCAL    1      1.
*
*****************************************************************
* BOUNDARY CONDITIONS
*****************************************************************
DFIX     1    1    1    1    1    1    1
DFIX    21    1    1    1    1    1    1
DFIX    41    1    1    1    1    1    1
DFIX     4    2    0    0    0    0    0
DFIX     5    2    0    0    0    0    0
DFIX     6    2    0    0    0    0    0
DFIX     7    2    0    0    0    0    0
DFIX     8    2    0    0    0    0    0
DFIX     9    2    0    0    0    0    0
DFIX    10    2    0    0    0    0    0
DFIX    11    2    0    0    0    0    0
DFIX    12    2    0    0    0    0    0
DFIX    13    2    0    0    0    0    0
DFIX    14    2    0    0    0    0    0
DFIX    15    2    0    0    0    0    0
DFIX    16    2    0    0    0    0    0
DFIX    17    2    0    0    0    0    0
DFIX    24    2    0    0    0    0    0
DFIX    25    2    0    0    0    0    0
DFIX    26    2    0    0    0    0    0
DFIX    27    2    0    0    0    0    0
DFIX    28    2    0    0    0    0    0
DFIX    29    2    0    0    0    0    0
DFIX    30    2    0    0    0    0    0
DFIX    31    2    0    0    0    0    0
DFIX    32    2    0    0    0    0    0
DFIX    33    2    0    0    0    0    0
DFIX    34    2    0    0    0    0    0
DFIX    35    2    0    0    0    0    0
DFIX    36    2    0    0    0    0    0
DFIX    37    2    0    0    0    0    0
DFIX    44    2    0    0    0    0    0
DFIX    45    2    0    0    0    0    0
DFIX    46    2    0    0    0    0    0
DFIX    47    2    0    0    0    0    0
DFIX    48    2    0    0    0    0    0
DFIX    49    2    0    0    0    0    0
DFIX    50    2    0    0    0    0    0
DFIX    51    2    0    0    0    0    0
DFIX    52    2    0    0    0    0    0
DFIX    53    2    0    0    0    0    0
DFIX    54    2    0    0    0    0    0
DFIX    55    2    0    0    0    0    0
DFIX    56    2    0    0    0    0    0
DFIX    57    2    0    0    0    0    0
* *****************************************************************
* IDENTICATION OF BEAM ELEMENTS AND NUMBERING
* *****************************************************************
*
EBEAM     PILE BEAM ELEMENTS
*
EBMAT    1  4176000.      0.3     0.490
EBSEC    1      0.35     0.50      0.50     .0135     .0135     .0135 0.53 0.53
EBSEC    2      1.00     0.50      0.50     .5000     .5000     .5000
*
EBMEM    1    1    2        1    1        000000    000000
EBMEM    2    2    3        1    1        000000    000000
EBMEM    3    3    4        1    1        000000    000000
EBMEM    4    4    5        1    1        000000    000000
EBMEM    5    5    6        1    1        000000    000000
EBMEM    6    6    7        1    1        000000    000000
EBMEM    7    7    8        1    1        000000    000000
EBMEM    8    8    9        1    1        000000    000000
EBMEM    9    9   10        1    1        000000    000000
EBMEM   10   10   11        1    1        000000    000000
EBMEM   11   11   12        1    1        000000    000000
EBMEM   12   12   13        1    1        000000    000000
EBMEM   13   13   14        1    1        000000    000000
EBMEM   14   14   15        1    1        000000    000000
EBMEM   15   15   16        1    1        000000    000000
```

```
EBMEM   16   16   17        1    1        000000    000000
EBMEM   21   21   22        1    1        000000    000000
EBMEM   22   22   23        1    1        000000    000000
EBMEM   23   23   24        1    1        000000    000000
EBMEM   24   24   25        1    1        000000    000000
EBMEM   25   25   26        1    1        000000    000000
EBMEM   26   26   27        1    1        000000    000000
EBMEM   27   27   28        1    1        000000    000000
EBMEM   28   28   29        1    1        000000    000000
EBMEM   29   29   30        1    1        000000    000000
EBMEM   30   30   31        1    1        000000    000000
EBMEM   31   31   32        1    1        000000    000000
EBMEM   32   32   33        1    1        000000    000000
EBMEM   33   33   34        1    1        000000    000000
EBMEM   34   34   35        1    1        000000    000000
EBMEM   35   35   36        1    1        000000    000000
EBMEM   36   36   37        1    1        000000    000000
EBMEM   37   17   37        1    2        000000    000000
EBMEM   38   37   38        1    2        000000    000000
EBMEM   39   38   39        1    2        000000    000000
EBMEM   40   39   40        1    2        000000    000000
EBMEM   41   41   42        1    1        000000    000000
EBMEM   42   42   43        1    1        000000    000000
EBMEM   43   43   44        1    1        000000    000000
EBMEM   44   44   45        1    1        000000    000000
EBMEM   45   45   46        1    1        000000    000000
EBMEM   46   46   47        1    1        000000    000000
EBMEM   47   47   48        1    1        000000    000000
EBMEM   48   48   49        1    1        000000    000000
EBMEM   49   49   50        1    1        000000    000000
EBMEM   50   50   51        1    1        000000    000000
EBMEM   51   51   52        1    1        000000    000000
EBMEM   52   52   53        1    1        000000    000000
EBMEM   53   53   54        1    1        000000    000000
EBMEM   54   54   55        1    1        000000    000000
EBMEM   55   55   56        1    1        000000    000000
EBMEM   56   56   57        1    1        000000    000000
EBMEM   57   17   57        1    2        000000    000000
EBMEM   58   57   58        1    2        000000    000000
EBMEM   59   58   59        1    2        000000    000000
EBMEM   60   59   60        1    2        000000    000000
*
*==========================================================
*
*****************************************************
* LOADS
*****************************************************
FLOAD   40    1                        29.2     -82.2
FLOAD   60    1                                 -74.7
*LOAD   59    1                         5.0
*LOAD   39    1                         5.0
FLOAD   38    1                         4.6     -14.0
FLOAD   58    1                         4.6     -14.0
FLOAD    4    2            0.071
FLOAD    5    2            0.143
FLOAD    6    2            0.214
FLOAD    7    2            0.286
FLOAD    8    2            0.357
FLOAD    9    2            0.429
FLOAD   10    2            0.500
FLOAD   11    2            0.571
FLOAD   12    2            0.643
FLOAD   13    2            0.714
FLOAD   14    2            0.785
FLOAD   15    2            0.857
FLOAD   16    2            0.928
FLOAD   17    2            1.000
FLOAD   24    2            0.071
FLOAD   25    2            0.143
FLOAD   26    2            0.214
FLOAD   27    2            0.286
FLOAD   28    2            0.357
FLOAD   29    2            0.429
FLOAD   30    2            0.500
FLOAD   31    2            0.571
FLOAD   32    2            0.643
FLOAD   33    2            0.714
FLOAD   34    2            0.785
FLOAD   35    2            0.857
FLOAD   36    2            0.928
FLOAD   37    2            1.000
FLOAD   44    2            0.071
FLOAD   45    2            0.143
FLOAD   46    2            0.214
```

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```
FLOAD   47    2          0.286
FLOAD   48    2          0.357
FLOAD   49    2          0.429
FLOAD   50    2          0.500
FLOAD   51    2          0.571
FLOAD   52    2          0.643
FLOAD   53    2          0.714
FLOAD   54    2          0.785
FLOAD   55    2          0.857
FLOAD   56    2          0.928
FLOAD   57    2          1.000
**
FSUMM    0
*
FHEAD          90 kips Dead Load
FHEAD          Imposed displacement
*
FCASE    1    1            1.0
FCASE    2    2            1.0
*
*****************************************************************
* LINEAR STATIC PUSHOVER ANALYSIS
*****************************************************************
ZPUSH    1    2    1    5    1    0    0    0
              .00001    .00001    .00001     1000.
                 1.0
*
ZPUSH    1    2    1    5    1    0    1    0
              .00001    .00001    .00001     1000.
                           1.0
*****************************************************************
* REQUEST FOR PLOTS
*****************************************************************
ZPLOT    1    1   01    0    0              POP T4 BRIDGE PILE CAP
                 1.0       1.0       1.0
                 1.0       1.0       1.0
      STIT           BATTER PILE
      UNDF
      PAGE
      BTIT
      DISP                1
      END
```

.....BEAM - GROUP 1 (BEAM ELEMENTS) PILE BEAM ELEMENTS

BEAM NUMBER	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	--RESULTANT Y+Z-- SHEAR	MOMENT	----------STRESSES---------- AXIAL	BEND-Y	BEND-Z	CONTRL UTILIZ
1	1	5.95E+01	-2.01E+00	-4.30E+00	2.99E-04	-1.42E+01	-6.08E+01	4.75E+00	6.24E+01	-1.70E+02	-5.58E+02	-2.39E+03	0.00
		-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	2.49E+01	5.57E+01	4.75E+00	6.11E+01	-1.70E+02	9.79E+02	2.19E+03	0.00
	2	-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	3.57E+01	5.07E+01	4.75E+00	6.20E+01	-1.70E+02	1.40E+03	1.99E+03	0.00
2	2	5.95E+01	-2.01E+00	-4.30E+00	2.99E-04	-3.57E+01	-5.07E+01	4.75E+00	6.20E+01	-1.70E+02	-1.40E+03	-1.99E+03	0.00
		-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	4.64E+01	4.57E+01	4.75E+00	6.51E+01	-1.70E+02	1.82E+03	1.79E+03	0.00
	3	-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	5.72E+01	4.07E+01	4.75E+00	7.02E+01	-1.70E+02	2.25E+03	1.60E+03	0.00
3	3	5.95E+01	-2.01E+00	-4.30E+00	2.99E-04	-5.72E+01	-4.07E+01	4.75E+00	7.02E+01	-1.70E+02	-2.25E+03	-1.60E+03	0.00
		-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	6.79E+01	3.56E+01	4.75E+00	7.67E+01	-1.70E+02	2.67E+03	1.40E+03	0.00
	4	-5.95E+01	2.01E+00	4.30E+00	-2.99E-04	7.87E+01	3.06E+01	4.75E+00	8.44E+01	-1.70E+02	3.09E+03	1.20E+03	0.00
4	4	5.95E+01	-2.01E+00	2.05E+01	2.99E-04	-7.87E+01	-3.06E+01	2.06E+01	8.44E+01	-1.70E+02	-3.09E+03	-1.20E+03	0.00
		-5.95E+01	2.01E+00	-2.05E+01	-2.99E-04	2.73E+01	2.56E+01	2.06E+01	3.74E+01	-1.70E+02	1.07E+03	1.00E+03	0.00
	5	-5.95E+01	2.01E+00	-2.05E+01	-2.99E-04	-2.40E+01	2.06E+01	2.06E+01	3.16E+01	-1.70E+02	-9.44E+02	8.07E+02	0.00
5	5	5.95E+01	-2.01E+00	-6.92E+00	2.99E-04	2.40E+01	-2.06E+01	7.20E+00	3.16E+01	-1.70E+02	9.44E+02	-8.07E+02	0.00
		-5.95E+01	2.01E+00	6.92E+00	-2.99E-04	-6.74E+00	1.55E+01	7.20E+00	1.69E+01	-1.70E+02	-2.65E+02	6.10E+02	0.00
	6	-5.95E+01	2.01E+00	6.92E+00	-2.99E-04	1.06E+01	1.05E+01	7.20E+00	1.49E+01	-1.70E+02	4.14E+02	4.13E+02	0.00
6	6	5.95E+01	-2.01E+00	3.54E+00	2.99E-04	-1.06E+01	-1.05E+01	4.07E+00	1.49E+01	-1.70E+02	-4.14E+02	-4.13E+02	0.00
		-5.95E+01	2.01E+00	-3.54E+00	-2.99E-04	1.69E+00	5.48E+00	4.07E+00	5.74E+00	-1.70E+02	6.65E+01	2.15E+02	0.00
	7	-5.95E+01	2.01E+00	-3.54E+00	-2.99E-04	-7.17E+00	4.56E-01	4.07E+00	7.18E+00	-1.70E+02	-2.81E+02	1.79E+01	0.00
7	7	5.95E+01	-2.01E+00	-2.65E+00	2.99E-04	7.17E+00	-4.56E-01	3.32E+00	7.18E+00	-1.70E+02	2.81E+02	-1.79E+01	0.00
		-5.95E+01	2.01E+00	2.65E+00	-2.99E-04	-5.48E-01	-4.57E+00	3.32E+00	4.60E+00	-1.70E+02	-2.15E+01	-1.79E+02	0.00
	8	-5.95E+01	2.01E+00	2.65E+00	-2.99E-04	6.07E+00	-9.59E+00	3.32E+00	1.14E+01	-1.70E+02	2.38E+02	-3.77E+02	0.00
8	8	5.95E+01	-2.01E+00	2.16E+00	2.99E-04	-6.07E+00	9.59E+00	2.95E+00	1.14E+01	-1.70E+02	-2.38E+02	3.77E+02	0.00
		-5.95E+01	2.01E+00	-2.16E+00	-2.99E-04	6.65E-01	-1.46E+01	2.95E+00	1.46E+01	-1.70E+02	2.61E+01	-5.74E+02	0.00
	9	-5.95E+01	2.01E+00	-2.16E+00	-2.99E-04	-4.74E+00	-1.96E+01	2.95E+00	2.02E+01	-1.70E+02	-1.86E+02	-7.71E+02	0.00
9	9	5.95E+01	-2.01E+00	-9.70E-01	2.99E-04	4.74E+00	1.96E+01	2.23E+00	2.02E+01	-1.70E+02	1.86E+02	7.71E+02	0.00
		-5.95E+01	2.01E+00	9.70E-01	-2.99E-04	-2.31E+00	-2.47E+01	2.23E+00	2.48E+01	-1.70E+02	-9.08E+01	-9.69E+02	0.00
	10	-5.95E+01	2.01E+00	9.70E-01	-2.99E-04	1.11E-01	-2.97E+01	2.23E+00	2.97E+01	-1.70E+02	4.37E+00	-1.17E+03	0.00
10	10	5.95E+01	-2.01E+00	-8.30E-01	2.99E-04	-1.11E-01	2.97E+01	2.17E+00	2.97E+01	-1.70E+02	-4.37E+00	1.17E+03	0.00
		-5.95E+01	2.01E+00	8.30E-01	-2.99E-04	2.19E+00	-3.47E+01	2.17E+00	3.48E+01	-1.70E+02	8.58E+01	-1.36E+03	0.00
	11	-5.95E+01	2.01E+00	8.30E-01	-2.99E-04	4.26E+00	-3.97E+01	2.17E+00	4.00E+01	-1.70E+02	1.67E+02	-1.56E+03	0.00
11	11	5.95E+01	-2.01E+00	1.70E+00	2.99E-04	-4.26E+00	3.97E+01	2.63E+00	4.00E+01	-1.70E+02	-1.67E+02	1.56E+03	0.00
		-5.95E+01	2.01E+00	-1.70E+00	-2.99E-04	1.45E-02	-4.48E+01	2.63E+00	4.48E+01	-1.70E+02	5.68E-01	-1.76E+03	0.00
	12	-5.95E+01	2.01E+00	-1.70E+00	-2.99E-04	-4.23E+00	-4.98E+01	2.63E+00	5.00E+01	-1.70E+02	-1.66E+02	-1.96E+03	0.00
12	12	5.95E+01	-2.01E+00	-7.93E-01	2.99E-04	4.23E+00	4.98E+01	2.16E+00	5.00E+01	-1.70E+02	1.66E+02	1.96E+03	0.00
		-5.95E+01	2.01E+00	7.93E-01	-2.99E-04	-2.25E+00	-5.48E+01	2.16E+00	5.49E+01	-1.70E+02	-8.83E+01	-2.15E+03	0.00
	13	-5.95E+01	2.01E+00	7.93E-01	-2.99E-04	-2.65E-01	-5.98E+01	2.16E+00	5.99E+01	-1.70E+02	-1.04E+01	-2.35E+03	0.00
13	13	5.95E+01	-2.01E+00	-1.13E+00	2.99E-04	2.65E-01	5.98E+01	2.30E+00	5.99E+01	-1.70E+02	1.04E+01	2.35E+03	0.00
		-5.95E+01	2.01E+00	1.13E+00	-2.99E-04	2.55E+00	-6.49E+01	2.30E+00	6.49E+01	-1.70E+02	1.00E+02	-2.55E+03	0.00

	14	-5.95E+01	2.01E+00	1.13E+00	-2.99E-04	5.37E+00	-6.99E+01	2.30E+00	7.01E+01	-1.70E+02	2.11E+02	-2.74E+03	0.00
14	14	5.95E+01	-2.01E+00	2.80E+00	2.99E-04	-5.37E+00	6.99E+01	3.45E+00	7.01E+01	-1.70E+02	-2.11E+02	2.74E+03	0.00
		-5.95E+01	2.01E+00	-2.80E+00	-2.99E-04	-1.63E+00	-7.49E+01	3.45E+00	7.49E+01	-1.70E+02	-6.41E+01	-2.94E+03	0.00
	15	-5.95E+01	2.01E+00	-2.80E+00	-2.99E-04	-8.63E+00	-8.00E+01	3.45E+00	8.04E+01	-1.70E+02	-3.39E+02	-3.14E+03	0.00
15	15	5.95E+01	-2.01E+00	-5.24E+00	2.99E-04	8.63E+00	8.00E+01	5.61E+00	8.04E+01	-1.70E+02	3.39E+02	3.14E+03	0.00
		-5.95E+01	2.01E+00	5.24E+00	-2.99E-04	4.47E+00	-8.50E+01	5.61E+00	8.51E+01	-1.70E+02	1.75E+02	-3.34E+03	0.00
	16	-5.95E+01	2.01E+00	5.24E+00	-2.99E-04	1.76E+01	-9.00E+01	5.61E+00	9.17E+01	-1.70E+02	6.90E+02	-3.53E+03	0.00
16	16	5.95E+01	-2.01E+00	1.41E+01	2.99E-04	-1.76E+01	9.00E+01	1.42E+01	9.17E+01	-1.70E+02	-6.90E+02	3.53E+03	0.00
		-5.95E+01	2.01E+00	-1.41E+01	-2.99E-04	-1.76E+01	-9.50E+01	1.42E+01	9.66E+01	-1.70E+02	-6.91E+02	-3.73E+03	0.00
	17	-5.95E+01	2.01E+00	-1.41E+01	-2.99E-04	-5.28E+01	-1.00E+02	1.42E+01	1.13E+02	-1.70E+02	-2.07E+03	-3.93E+03	0.00
21	21	1.32E+02	-1.88E+00	-3.93E+00	8.28E-01	-1.33E+01	-5.85E+01	4.36E+00	6.00E+01	-3.77E+02	-5.23E+02	-2.30E+03	0.00
		-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	2.35E+01	5.36E+01	4.36E+00	5.85E+01	-3.77E+02	9.21E+02	2.11E+03	0.00
	22	-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	3.36E+01	4.88E+01	4.36E+00	5.92E+01	-3.77E+02	1.32E+03	1.92E+03	0.00
22	22	1.32E+02	-1.88E+00	-3.93E+00	8.28E-01	-3.36E+01	-4.88E+01	4.36E+00	5.92E+01	-3.77E+02	-1.32E+03	-1.92E+03	0.00
		-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	4.37E+01	4.40E+01	4.36E+00	6.20E+01	-3.77E+02	1.72E+03	1.73E+03	0.00
	23	-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	5.39E+01	3.91E+01	4.36E+00	6.66E+01	-3.77E+02	2.11E+03	1.54E+03	0.00
23	23	1.32E+02	-1.88E+00	-3.93E+00	8.28E-01	-5.39E+01	-3.91E+01	4.36E+00	6.66E+01	-3.77E+02	-2.11E+03	-1.54E+03	0.00
		-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	6.40E+01	3.43E+01	4.36E+00	7.26E+01	-3.77E+02	2.51E+03	1.35E+03	0.00
	24	-1.32E+02	1.88E+00	3.93E+00	-8.28E-01	7.41E+01	2.95E+01	4.36E+00	7.98E+01	-3.77E+02	2.91E+03	1.16E+03	0.00
24	24	1.32E+02	-1.88E+00	1.88E+01	8.28E-01	-7.41E+01	-2.95E+01	1.89E+01	7.98E+01	-3.77E+02	-2.91E+03	-1.16E+03	0.00
		-1.32E+02	1.88E+00	-1.88E+01	-8.28E-01	2.57E+01	2.46E+01	1.89E+01	3.56E+01	-3.77E+02	1.01E+03	9.67E+02	0.00
	25	-1.32E+02	1.88E+00	-1.88E+01	-8.28E-01	-2.27E+01	1.98E+01	1.89E+01	3.02E+01	-3.77E+02	-8.93E+02	7.77E+02	0.00
25	25	1.32E+02	-1.88E+00	-6.36E+00	8.28E-01	2.27E+01	-1.98E+01	6.63E+00	3.02E+01	-3.77E+02	8.93E+02	-7.77E+02	0.00
		-1.32E+02	1.88E+00	6.36E+00	-8.28E-01	-6.37E+00	1.50E+01	6.63E+00	1.63E+01	-3.77E+02	-2.50E+02	5.88E+02	0.00
	26	-1.32E+02	1.88E+00	6.36E+00	-8.28E-01	1.00E+01	1.01E+01	6.63E+00	1.42E+01	-3.77E+02	3.93E+02	3.98E+02	0.00
26	26	1.32E+02	-1.88E+00	3.26E+00	8.28E-01	-1.00E+01	-1.01E+01	3.76E+00	1.42E+01	-3.77E+02	-3.93E+02	-3.98E+02	0.00
		-1.32E+02	1.88E+00	-3.26E+00	-8.28E-01	1.61E+00	5.30E+00	3.76E+00	5.54E+00	-3.77E+02	6.32E+01	2.08E+02	0.00
	27	-1.32E+02	1.88E+00	-3.26E+00	-8.28E-01	-6.79E+00	4.68E-01	3.76E+00	6.80E+00	-3.77E+02	-2.67E+02	1.84E+01	0.00
27	27	1.32E+02	-1.88E+00	-2.43E+00	8.28E-01	6.79E+00	-4.68E-01	3.07E+00	6.80E+00	-3.77E+02	2.67E+02	-1.84E+01	0.00
		-1.32E+02	1.88E+00	2.43E+00	-8.28E-01	-5.23E-01	-4.37E+00	3.07E+00	4.40E+00	-3.77E+02	-2.05E+01	-1.71E+02	0.00
	28	-1.32E+02	1.88E+00	2.43E+00	-8.28E-01	5.74E+00	-9.20E+00	3.07E+00	1.08E+01	-3.77E+02	2.25E+02	-3.61E+02	0.00
28	28	1.32E+02	-1.88E+00	1.98E+00	8.28E-01	-5.74E+00	9.20E+00	2.73E+00	1.08E+01	-3.77E+02	-2.25E+02	3.61E+02	0.00
		-1.32E+02	1.88E+00	-1.98E+00	-8.28E-01	6.32E-01	-1.40E+01	2.73E+00	1.40E+01	-3.77E+02	2.48E+01	-5.51E+02	0.00
	29	-1.32E+02	1.88E+00	-1.98E+00	-8.28E-01	-4.48E+00	-1.89E+01	2.73E+00	1.94E+01	-3.77E+02	-1.76E+02	-7.41E+02	0.00
29	29	1.32E+02	-1.88E+00	-8.90E-01	8.28E-01	4.48E+00	1.89E+01	2.08E+00	1.94E+01	-3.77E+02	1.76E+02	7.41E+02	0.00
		-1.32E+02	1.88E+00	8.90E-01	-8.28E-01	-2.19E+00	-2.37E+01	2.08E+00	2.38E+01	-3.77E+02	-8.58E+01	-9.31E+02	0.00
	30	-1.32E+02	1.88E+00	8.90E-01	-8.28E-01	1.07E-01	-2.85E+01	2.08E+00	2.85E+01	-3.77E+02	4.21E+00	-1.12E+03	0.00
30	30	1.32E+02	-1.88E+00	-7.59E-01	8.28E-01	-1.07E-01	2.85E+01	2.02E+00	2.85E+01	-3.77E+02	-4.21E+00	1.12E+03	0.00
		-1.32E+02	1.88E+00	7.59E-01	-8.28E-01	2.06E+00	-3.34E+01	2.02E+00	3.34E+01	-3.77E+02	8.10E+01	-1.31E+03	0.00
	31	-1.32E+02	1.88E+00	7.59E-01	-8.28E-01	4.02E+00	-3.82E+01	2.02E+00	3.84E+01	-3.77E+02	1.58E+02	-1.50E+03	0.00
31	31	1.32E+02	-1.88E+00	1.55E+00	8.28E-01	-4.02E+00	3.82E+01	2.44E+00	3.84E+01	-3.77E+02	-1.58E+02	1.50E+03	0.00
		-1.32E+02	1.88E+00	-1.55E+00	-8.28E-01	1.56E-02	-4.30E+01	2.44E+00	4.30E+01	-3.77E+02	6.12E-01	-1.69E+03	0.00
	32	-1.32E+02	1.88E+00	-1.55E+00	-8.28E-01	-3.99E+00	-4.79E+01	2.44E+00	4.80E+01	-3.77E+02	-1.57E+02	-1.88E+03	0.00

32	32	1.32E+02	-1.88E+00	-7.21E-01	8.28E-01	3.99E+00	4.79E+01	2.01E+00	4.80E+01	-3.77E+02	1.57E+02	1.88E+03	0.00
		-1.32E+02	1.88E+00	7.21E-01	-8.28E-01	-2.13E+00	-5.27E+01	2.01E+00	5.27E+01	-3.77E+02	-8.36E+01	-2.07E+03	0.00
	33	-1.32E+02	1.88E+00	7.21E-01	-8.28E-01	-2.72E-01	-5.75E+01	2.01E+00	5.75E+01	-3.77E+02	-1.07E+01	-2.26E+03	0.00
33	33	1.32E+02	-1.88E+00	-1.05E+00	8.28E-01	2.72E-01	5.75E+01	2.15E+00	5.75E+01	-3.77E+02	1.07E+01	2.26E+03	0.00
		-1.32E+02	1.88E+00	1.05E+00	-8.28E-01	2.44E+00	-6.24E+01	2.15E+00	6.24E+01	-3.77E+02	9.58E+01	-2.45E+03	0.00
	34	-1.32E+02	1.88E+00	1.05E+00	-8.28E-01	5.15E+00	-6.72E+01	2.15E+00	6.74E+01	-3.77E+02	2.02E+02	-2.64E+03	0.00
34	34	1.32E+02	-1.88E+00	2.64E+00	8.28E-01	-5.15E+00	6.72E+01	3.24E+00	6.74E+01	-3.77E+02	-2.02E+02	2.64E+03	0.00
		-1.32E+02	1.88E+00	-2.64E+00	-8.28E-01	-1.66E+00	-7.20E+01	3.24E+00	7.21E+01	-3.77E+02	-6.51E+01	-2.83E+03	0.00
	35	-1.32E+02	1.88E+00	-2.64E+00	-8.28E-01	-8.47E+00	-7.69E+01	3.24E+00	7.73E+01	-3.77E+02	-3.33E+02	-3.02E+03	0.00
35	35	1.32E+02	-1.88E+00	-5.10E+00	8.28E-01	8.47E+00	7.69E+01	5.43E+00	7.73E+01	-3.77E+02	3.33E+02	3.02E+03	0.00
		-1.32E+02	1.88E+00	5.10E+00	-8.28E-01	4.67E+00	-8.17E+01	5.43E+00	8.18E+01	-3.77E+02	1.83E+02	-3.21E+03	0.00
	36	-1.32E+02	1.88E+00	5.10E+00	-8.28E-01	1.78E+01	-8.65E+01	5.43E+00	8.84E+01	-3.77E+02	6.99E+02	-3.40E+03	0.00
36	36	1.32E+02	-1.88E+00	1.40E+01	8.28E-01	-1.78E+01	8.65E+01	1.41E+01	8.84E+01	-3.77E+02	-6.99E+02	3.40E+03	0.00
		-1.32E+02	1.88E+00	-1.40E+01	-8.28E-01	-1.83E+01	-9.14E+01	1.41E+01	9.32E+01	-3.77E+02	-7.20E+02	-3.59E+03	0.00
	37	-1.32E+02	1.88E+00	-1.40E+01	-8.28E-01	-5.45E+01	-9.62E+01	1.41E+01	1.11E+02	-3.77E+02	-2.14E+03	-3.78E+03	0.00
37	17	6.08E-02	4.32E+00	3.15E+01	2.96E+01	1.12E+02	-6.15E-02	3.18E+01	1.12E+02	-6.08E-02	0.00E+00	0.00E+00	0.00
		-6.08E-02	-4.32E+00	-3.15E+01	-2.96E+01	-1.67E+02	7.62E+00	3.18E+01	1.67E+02	-6.08E-02	0.00E+00	0.00E+00	0.00
	37	-6.08E-02	-4.32E+00	-3.15E+01	-2.96E+01	-2.22E+02	1.52E+01	3.18E+01	2.23E+02	-6.08E-02	0.00E+00	0.00E+00	0.00
38	37	9.62E+01	-3.38E+01	3.82E-11	2.92E+01	8.22E+01	-1.26E+02	3.38E+01	1.50E+02	-9.62E+01	0.00E+00	0.00E+00	0.00
		-9.62E+01	3.38E+01	-3.82E-11	-2.92E+01	-8.22E+01	9.22E+01	3.38E+01	1.24E+02	-9.62E+01	0.00E+00	0.00E+00	0.00
	38	-9.62E+01	3.38E+01	-3.82E-11	-2.92E+01	-8.22E+01	5.84E+01	3.38E+01	1.01E+02	-9.62E+01	0.00E+00	0.00E+00	0.00
39	38	8.22E+01	-2.92E+01	9.82E-11	2.92E+01	8.22E+01	-5.84E+01	2.92E+01	1.01E+02	-8.22E+01	0.00E+00	0.00E+00	0.00
		-8.22E+01	2.92E+01	-9.82E-11	-2.92E+01	-8.22E+01	2.92E+01	2.92E+01	8.72E+01	-8.22E+01	0.00E+00	0.00E+00	0.00
	39	-8.22E+01	2.92E+01	-9.82E-11	-2.92E+01	-8.22E+01	-2.18E-11	2.92E+01	8.22E+01	-8.22E+01	0.00E+00	0.00E+00	0.00
40	39	0.00E+00	-2.92E+01	-8.22E+01	0.00E+00	8.22E+01	-2.92E+01	8.72E+01	8.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00
		0.00E+00	2.92E+01	8.22E+01	0.00E+00	-4.11E+01	1.46E+01	8.72E+01	4.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00
	40	0.00E+00	2.92E+01	8.22E+01	0.00E+00	-7.28E-12	1.57E-11	8.72E+01	1.73E-11	0.00E+00	0.00E+00	0.00E+00	0.00
41	41	-2.84E+00	-1.90E+00	-3.93E+00	-8.23E-01	-1.33E+01	-5.91E+01	4.37E+00	6.06E+01	8.12E+00	-5.23E+02	-2.32E+03	0.00
		2.84E+00	1.90E+00	3.93E+00	8.23E-01	2.35E+01	5.42E+01	4.37E+00	5.90E+01	8.12E+00	9.21E+02	2.13E+03	0.00
	42	2.84E+00	1.90E+00	3.93E+00	8.23E-01	3.36E+01	4.93E+01	4.37E+00	5.97E+01	8.12E+00	1.32E+03	1.94E+03	0.00
42	42	-2.84E+00	-1.90E+00	-3.93E+00	-8.23E-01	-3.36E+01	-4.93E+01	4.37E+00	5.97E+01	8.12E+00	-1.32E+03	-1.94E+03	0.00
		2.84E+00	1.90E+00	3.93E+00	8.23E-01	4.37E+01	4.44E+01	4.37E+00	6.23E+01	8.12E+00	1.72E+03	1.74E+03	0.00
	43	2.84E+00	1.90E+00	3.93E+00	8.23E-01	5.39E+01	3.95E+01	4.37E+00	6.68E+01	8.12E+00	2.11E+03	1.55E+03	0.00
43	43	-2.84E+00	-1.90E+00	-3.93E+00	-8.23E-01	-5.39E+01	-3.95E+01	4.37E+00	6.68E+01	8.12E+00	-2.11E+03	-1.55E+03	0.00
		2.84E+00	1.90E+00	3.93E+00	8.23E-01	6.40E+01	3.46E+01	4.37E+00	7.28E+01	8.12E+00	2.51E+03	1.36E+03	0.00
	44	2.84E+00	1.90E+00	3.93E+00	8.23E-01	7.41E+01	2.97E+01	4.37E+00	7.99E+01	8.12E+00	2.91E+03	1.17E+03	0.00
44	44	-2.84E+00	-1.90E+00	1.88E+01	-8.23E-01	-7.41E+01	-2.97E+01	1.89E+01	7.99E+01	8.12E+00	-2.91E+03	-1.17E+03	0.00
		2.84E+00	1.90E+00	-1.88E+01	8.23E-01	2.57E+01	2.49E+01	1.89E+01	3.57E+01	8.12E+00	1.01E+03	9.76E+02	0.00
	45	2.84E+00	1.90E+00	-1.88E+01	8.23E-01	-2.27E+01	2.00E+01	1.89E+01	3.03E+01	8.12E+00	-8.93E+02	7.84E+02	0.00
45	45	-2.84E+00	-1.90E+00	-6.36E+00	-8.23E-01	2.27E+01	-2.00E+01	6.63E+00	3.03E+01	8.12E+00	8.93E+02	-7.84E+02	0.00
		2.84E+00	1.90E+00	6.36E+00	8.23E-01	-6.37E+01	1.51E+01	6.63E+00	1.64E+01	8.12E+00	-2.50E+02	5.92E+02	0.00
	46	2.84E+00	1.90E+00	6.36E+00	8.23E-01	1.00E+01	1.02E+01	6.63E+00	1.43E+01	8.12E+00	3.93E+02	4.00E+02	0.00

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46	46	-2.84E+00	-1.90E+00	3.26E+00	-8.23E-01	-1.00E+01	-1.02E+01	3.77E+00	1.43E+01	8.12E+00	-3.93E+02	-4.00E+02	0.00
		2.84E+00	1.90E+00	-3.26E+00	8.23E-01	1.61E+00	5.31E+00	3.77E+00	5.55E+00	8.12E+00	6.32E+01	2.09E+02	0.00
	47	2.84E+00	1.90E+00	-3.26E+00	8.23E-01	-6.79E+00	4.27E-01	3.77E+00	6.80E+00	8.12E+00	-2.67E+02	1.68E+01	0.00
47	47	-2.84E+00	-1.90E+00	-2.43E+00	-8.23E-01	6.79E+00	-4.27E-01	3.08E+00	6.80E+00	8.12E+00	2.67E+02	-1.68E+01	0.00
		2.84E+00	1.90E+00	2.43E+00	8.23E-01	-5.23E-01	-4.46E+00	3.08E+00	4.49E+00	8.12E+00	-2.05E+01	-1.75E+02	0.00
	48	2.84E+00	1.90E+00	2.43E+00	8.23E-01	5.74E+00	-9.35E+00	3.08E+00	1.10E+01	8.12E+00	2.25E+02	-3.67E+02	0.00
48	48	-2.84E+00	-1.90E+00	1.98E+00	-8.23E-01	-5.74E+00	9.35E+00	2.74E+00	1.10E+01	8.12E+00	-2.25E+02	3.67E+02	0.00
		2.84E+00	1.90E+00	-1.98E+00	8.23E-01	6.32E-01	-1.42E+01	2.74E+00	1.42E+01	8.12E+00	2.48E+01	-5.59E+02	0.00
	49	2.84E+00	1.90E+00	-1.98E+00	8.23E-01	-4.48E+00	-1.91E+01	2.74E+00	1.96E+01	8.12E+00	-1.76E+02	-7.51E+02	0.00
49	49	-2.84E+00	-1.90E+00	-8.90E-01	-8.23E-01	4.48E+00	1.91E+01	2.09E+00	1.96E+01	8.12E+00	1.76E+02	7.51E+02	0.00
		2.84E+00	1.90E+00	8.90E-01	8.23E-01	-2.19E+00	-2.40E+01	2.09E+00	2.41E+01	8.12E+00	-8.58E+01	-9.42E+02	0.00
	50	2.84E+00	1.90E+00	8.90E-01	8.23E-01	1.07E-01	-2.89E+01	2.09E+00	2.89E+01	8.12E+00	4.21E+00	-1.13E+03	0.00
50	50	-2.84E+00	-1.90E+00	-7.59E-01	-8.23E-01	-1.07E-01	2.89E+01	2.04E+00	2.89E+01	8.12E+00	-4.21E+00	1.13E+03	0.00
		2.84E+00	1.90E+00	7.59E-01	8.23E-01	2.06E+00	-3.38E+01	2.04E+00	3.38E+01	8.12E+00	8.10E+01	-1.33E+03	0.00
	51	2.84E+00	1.90E+00	7.59E-01	8.23E-01	4.02E+00	-3.87E+01	2.04E+00	3.89E+01	8.12E+00	1.58E+02	-1.52E+03	0.00
51	51	-2.84E+00	-1.90E+00	1.55E+00	-8.23E-01	-4.02E+00	3.87E+01	2.45E+00	3.89E+01	8.12E+00	-1.58E+02	1.52E+03	0.00
		2.84E+00	1.90E+00	-1.55E+00	8.23E-01	1.52E-02	-4.36E+01	2.45E+00	4.36E+01	8.12E+00	5.96E-01	-1.71E+03	0.00
	52	2.84E+00	1.90E+00	-1.55E+00	8.23E-01	-3.99E+00	-4.84E+01	2.45E+00	4.86E+01	8.12E+00	-1.57E+02	-1.90E+03	0.00
52	52	-2.84E+00	-1.90E+00	-7.22E-01	-8.23E-01	3.99E+00	4.84E+01	2.03E+00	4.86E+01	8.12E+00	1.57E+02	1.90E+03	0.00
		2.84E+00	1.90E+00	7.22E-01	8.23E-01	-2.13E+00	-5.33E+01	2.03E+00	5.34E+01	8.12E+00	-8.35E+01	-2.09E+03	0.00
	53	2.84E+00	1.90E+00	7.22E-01	8.23E-01	-2.68E-01	-5.82E+01	2.03E+00	5.82E+01	8.12E+00	-1.05E+01	-2.29E+03	0.00
53	53	-2.84E+00	-1.90E+00	-1.05E+00	-8.23E-01	2.68E-01	5.82E+01	2.17E+00	5.82E+01	8.12E+00	1.05E+01	2.29E+03	0.00
		2.84E+00	1.90E+00	1.05E+00	8.23E-01	2.43E+00	-6.31E+01	2.17E+00	6.31E+01	8.12E+00	9.56E+01	-2.48E+03	0.00
	54	2.84E+00	1.90E+00	1.05E+00	8.23E-01	5.14E+00	-6.80E+01	2.17E+00	6.82E+01	8.12E+00	2.02E+02	-2.67E+03	0.00
54	54	-2.84E+00	-1.90E+00	2.63E+00	-8.23E-01	-5.14E+00	6.80E+01	3.24E+00	6.82E+01	8.12E+00	-2.02E+02	2.67E+03	0.00
		2.84E+00	1.90E+00	-2.63E+00	8.23E-01	-1.63E+00	-7.29E+01	3.24E+00	7.29E+01	8.12E+00	-6.40E+01	-2.86E+03	0.00
	55	2.84E+00	1.90E+00	-2.63E+00	8.23E-01	-8.40E+00	-7.78E+01	3.24E+00	7.82E+01	8.12E+00	-3.30E+02	-3.05E+03	0.00
55	55	-2.84E+00	-1.90E+00	-5.03E+00	-8.23E-01	8.40E+00	7.78E+01	5.37E+00	7.82E+01	8.12E+00	3.30E+02	3.05E+03	0.00
		2.84E+00	1.90E+00	5.03E+00	8.23E-01	4.55E+00	-8.26E+01	5.37E+00	8.28E+01	8.12E+00	1.79E+02	-3.24E+03	0.00
	56	2.84E+00	1.90E+00	5.03E+00	8.23E-01	1.75E+01	-8.75E+01	5.37E+00	8.93E+01	8.12E+00	6.87E+02	-3.44E+03	0.00
56	56	-2.84E+00	-1.90E+00	1.37E+01	-8.23E-01	-1.75E+01	8.75E+01	1.39E+01	8.93E+01	8.12E+00	-6.87E+02	3.44E+03	0.00
		2.84E+00	1.90E+00	-1.37E+01	8.23E-01	-1.79E+01	-9.24E+01	1.39E+01	9.41E+01	8.12E+00	-7.02E+02	-3.63E+03	0.00
	57	2.84E+00	1.90E+00	-1.37E+01	8.23E-01	-5.33E+01	-9.73E+01	1.39E+01	1.11E+02	8.12E+00	-2.09E+03	-3.82E+03	0.00
57	17	2.07E+00	-3.94E+00	9.10E+01	-2.32E+01	-2.12E+02	-6.12E-02	9.11E+01	2.12E+02	-2.07E+00	0.00E+00	0.00E+00	0.00
		-2.07E+00	3.94E+00	-9.10E+01	2.32E+01	5.27E+01	-6.83E+00	9.11E+01	5.32E+01	-2.07E+00	0.00E+00	0.00E+00	0.00
	57	-2.07E+00	3.94E+00	-9.10E+01	2.32E+01	-1.07E+02	-1.37E+01	9.11E+01	1.07E+02	-2.07E+00	0.00E+00	0.00E+00	0.00
58	57	8.87E+01	-4.60E+00	2.27E-11	1.46E-11	7.47E+01	-9.20E+00	4.60E+00	7.53E+01	-8.87E+01	0.00E+00	0.00E+00	0.00
		-8.87E+01	4.60E+00	-2.27E-11	-1.46E-11	-7.47E+01	4.60E+00	4.60E+00	7.48E+01	-8.87E+01	0.00E+00	0.00E+00	0.00
	58	-8.87E+01	4.60E+00	-2.27E-11	-1.46E-11	-7.47E+01	0.00E+00	4.60E+00	7.47E+01	-8.87E+01	0.00E+00	0.00E+00	0.00
59	58	7.47E+01	-1.27E-11	2.64E-11	1.45E-11	7.47E+01	-2.55E-11	2.93E-11	7.47E+01	-7.47E+01	0.00E+00	0.00E+00	0.00
		-7.47E+01	1.27E-11	-2.64E-11	-1.45E-11	-7.47E+01	3.64E-12	2.93E-11	7.47E+01	-7.47E+01	0.00E+00	0.00E+00	0.00
	59	-7.47E+01	1.27E-11	-2.64E-11	-1.45E-11	-7.47E+01	0.00E+00	2.93E-11	7.47E+01	-7.47E+01	0.00E+00	0.00E+00	0.00
60	59	0.00E+00	2.13E-12	-7.47E+01	0.00E+00	7.47E+01	-4.56E-12	7.47E+01	7.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00

	0.00E+00	-2.13E-12	7.47E+01	0.00E+00	-3.73E+01	1.16E-11	7.47E+01	3.73E+01	0.00E+00	0.00E+00	0.00E+00	0.00
60	0.00E+00	-2.13E-12	7.47E+01	0.00E+00	1.09E-11	6.69E-12	7.47E+01	1.28E-11	0.00E+00	0.00E+00	0.00E+00	0.00

WINZLER&KELLY CONSULTING ENGINEERS

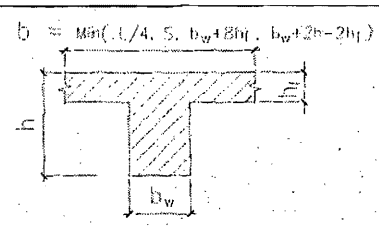
PROJECT :
CLIENT :
JOB NO. :
DATE :

PAGE : F 32/34
DESIGN BY :
REVIEW BY :

Concrete Beam Design Based on ACI 318-05

INPUT DATA

f'_c		=	4	ksi	M_u =	222	ft-k	
Main Bar f_y		=	60	ksi	V_u =	91	k	
Stirrup f_y		=	60	ksi	T_u =	30	ft-k	
					b =	48	in, (ACI, 8.10.2)	
Top bars	6	#	9		h =	36	in	
Bot bars	6	#	9		b_w =	48	in	
					h_f =	0	in	
Stirrup size		==>	#	4	@	6	in o.c.	
No. of legs		=	4		d (optional)	=	30	in



The design is adequate.

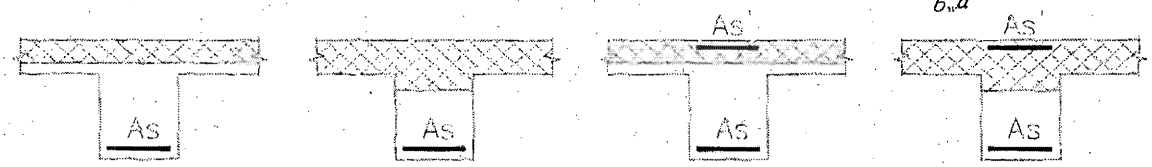
DESIGN SUMMARY

Main bar top (Compressive Reinf.) : Use 6 # 9 — Stirrups : Use # 4 @ 6 in. o.c. (4 legs)

Main bar bottom (Tensile Reinf.) : Use 6 # 9 (1 layer)

GOVERNING CASE ANALYSIS

ε_u	=	0.003		β_1	=	0.85		ρ_{max}	=	0.0206	
d	=	30.0	in	ϕ	=	0.90		E_S	=	29000	ksi
d'	=	2.6	in	ρ_{min}	=	0.0033		$\rho_w = \frac{A_s}{b_w d}$	=	0.0042	



Case 1 Case 2 Case 3 Case 4

CASE 2 APPLICABLE

FLEXURAL ANALYSIS

Case 1 Analysis :

$$a = d - \sqrt{d^2 - \frac{2M_u}{0.85\phi b f_c'}} = \quad \text{in} \qquad A_S = \frac{0.85ab f_c'}{f_y} = \quad \text{in}^2$$

Case 2 Analysis :

$$a = d - \sqrt{d^2 - \frac{2}{b_w}\left[\frac{M_u}{0.85 f f_c'} - (b - b_w)h_f\left(d - \frac{h_f}{2}\right)\right]} = 0.61 \quad \text{in} \qquad A_S = \frac{0.85 f_c'(ab_w + bh_f - b_w h_f)}{f_y} = 2.22 \quad \text{in}^2$$

Case 3 Analysis :

$$a = \frac{\varepsilon_u d}{\varepsilon_u + 0.004} = \quad \text{in} \qquad A_S' = \frac{M_u - \phi\left[0.85 f_c' ba\left(d - \frac{a}{2}\right)\right]}{\phi f_S'(d - d')} = \quad \text{in}^2$$

$$A_S = A_S'\frac{f_S'}{f_y} + \frac{0.85 f_c' ba}{f_y} = \quad \text{in}^2 \qquad f_S' = E_S\varepsilon_u\frac{a - \beta_1 d'}{a} = \quad \text{ksi}$$

Case 4 Analysis :

$$a = \frac{\varepsilon_u d}{\varepsilon_u + 0.004} = \quad \text{in} \qquad A_S' = \frac{M_u - \phi\left[0.85 f_c' b_w a\left(d - \frac{a}{2}\right) + 0.85 f_c'(b - b_w)h_f\left(d - \frac{h_f}{2}\right)\right]}{\phi f_S'(d - d')} = \quad \text{in}^2$$

$$A_S = A_S'\frac{f_S'}{f_y} + \frac{0.85 f_c'\left[(b - b_w)h_f + ab_w\right]}{f_y} = \quad \text{in}^2 \qquad f_S' = E_S\varepsilon_u\frac{a - \beta_1 d'}{a} = \quad \text{ksi}$$

SHEAR ANALYSIS (cont'd)

F33/34

Check section limitation (ACI, 11.5.7.9)

$$V_u \le 10\phi b_w d\sqrt{f'_c}$$

91.0 < 683.1 k **[Satisfactory]**

where ϕ = 0.75

Determine concrete capacity (ACI, 11.3.1.1 or 11.3.2)

$$V_C = 2b_w d\sqrt{f'_c} = \quad 182.15 \quad \text{k}$$

$$V_C = \left(1.9A + 2500\rho_w B\right)b_w d = \quad 188.04 \quad \text{k}$$,<== applicable

where $A = MIN\left(\sqrt{f'_c}\ ,\ 100\right) =$ 63.25

$B = MIN\left(\frac{V_u d}{M_u}\ ,\ 1.0\right) =$ 1.000

Check shear reinforcement (ACI, 11.5)

$$\left(\frac{A_v}{s}\right)_{ReqD} = \begin{cases} 0\ ,\ for\ \ V_u < \frac{\phi V_c}{2} \\ MAX\left(\frac{50b_w}{f_y}\ ,\ \frac{0.75\sqrt{f'_c}b_w}{f_y}\right)\ ,\ for\ \ \frac{\phi V_c}{2} \le V_u \le \phi V_c \\ \frac{V_u - \phi V_c}{\phi d f_y}\ ,\ for\ \ \phi V_c \le V_u \end{cases}$$

= 0.480 in² / ft < $\left(\frac{A_v}{s}\right)_{ProvD}$ = 1.600 in² / ft **[Satisfactory]**

Check spacing limits for shear reinforcement (ACI 11.5.4)

$$V_s = \frac{V_u - \phi V_C}{\phi} = \quad -66.71 \quad \text{k}$$

$$S_{max,shear} = \begin{cases} MIN(\frac{d}{2}\ ,\ 24)\ \ for\ \ V_s \le 4b_w d\sqrt{f'_c} \\ MIN(\frac{d}{4}\ ,\ 12)\ \ for\ \ V_s > 4b_w d\sqrt{f'_c} \end{cases}$$ = 15 > S = 6 in

[Satisfactory]

TORSION ANALYSIS

Check section limitation (ACI, 11.6.3.1)

$$\sqrt{\left(\frac{V_u}{b_w d}\right)^2 + \left(\frac{T_u P_h}{1.7A_{oh}^2}\right)^2} \le \phi\left(\frac{V_c}{b_w d} + 8\sqrt{f'_c}\right)$$

where ϕ = 0.75 (ACI, 9.3.2.3)

P_h = 154 in, (perimeter of centerline of outermost closed transverse torsional reinforcement.)

A_{oh} = 1,446 in² (area enclosed by centerline of the outermost closed transverse torsional reinforcement.)

0.065 < 0.474 **[Satisfactory]**

Check if torsional reinforcement required (ACI, 11.6.1)

$$T_u \le \phi\sqrt{f'_c}\left(\frac{A_{cp}^2}{P_{cp}}\right)$$

where b_e = MIN(h-h_f , 4h_f) = 0 in, (one side, ACI, 11.6.1.1)

P_{cp} = 168 in, (outside perimeter of the concrete cross section.)

A_{cp} = 1,728 in² (area enclosed by outside perimeter of concrete cross section.)

30.0 < 70.3 ft-k

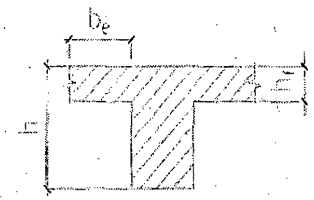
Torsional reinforcement NOT reqD.

Check the max factored torque causing cracking (ACI, 11.6.2.2)

$$T_u \le 4\phi\sqrt{f'_c}\left(\frac{A_{cp}^2}{P_{cp}}\right)$$

30.0 < 281.0

Reduction of the torsional moment can occur.



Determine the area of one leg of a closed stirrup (ACI, 11.6.3.6)

$$\frac{A_t}{s} = \frac{T_u}{2\phi A_0 f_{yv}} = \frac{T_u}{1.7\phi A_{oh} f_{yv}} = \quad 0.00 \quad \text{in}^2/\text{ft}$$

Determine the corresponding area of longitudinal reinforcement (derived from ACI, 11.6.3.7 & 11.6.5.3)

$$A_L = MAX\left[\frac{A_t}{s}P_h\frac{f_{yv}}{f_{yL}}\ ,\ \frac{5A_{cp}\sqrt{f'_c}}{f_{yL}} - P_h\frac{f_{yv}}{f_{yL}}MAX\left(\frac{A_t}{s}\ ,\ \frac{25b_w}{f_{yv}}\right)\right] = \quad 0.00 \quad \text{in}^2$$

(cont'd)

F 34 / 34

Determine minimum combined area of longitudinal reinforcement

$A_{L,\,top} = A_s' + 0.5A_L =$ 0.00 in^2 < actual **[Satisfactory]**

$A_{L,\,bot} = A_s + 0.5A_L =$ 2.22 in^2 < actual **[Satisfactory]**

Determine minimum diameter for longitudinal reinforcement (ACI, 11.6.6.2)

d_{bL} = MAX(0.042 S, 3/8) = 0.50 in < 1.13 in **[Satisfactory]**

Determine minimum combined area of stirrups (ACI, 11.6.5.2 & 11.6.6.1)

$(A_v+2A_t) / S =$ 0.80 in^2 / ft > MAX [$0.75(f_c')^{0.5}b_w/f_{yv}$, $50b_w/f_{yv}$] = 0.48 in^2 / ft

$S_{max,\,tor}$ = MIN[(P_h/8, 12) = 12 in **[Satisfactory]**

S_{reqD} = MIN($S_{max,shear}$, $S_{max,tor}$) = 12 in > actual **[Satisfactory]**

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. ____ of ____

Subject T4 Berth 401 Rack Job No. 1086409002

Calculations
INDEX

A. Design Criteria A1 - A3

B. Frame Computer Model B1 - B7

C. Gravity Load Analysis C1 - C2

D. Seismic Analysis D1 - D5

E. Rack Framing Design E1 - E9

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A1 of 3

Subject T4 Berth 401 Rock Job No. 086409002

A Design Criteria

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A2 of 3

Subject T4 Berth 401 Rock Job No. 1086409002

Design Criteria

ASCE 7 15.3 Nonbuilding Structures Supported by other structures → 13.1.5

13.1.5 Design per Section 15 with a from 13.5-1 a = 1.0

Seismic Force per Formula 13.3-1

$z/h = 1.0$

$$F_p = \frac{.4\, a\, S_{DS} W}{\left(\frac{R}{I}\right)} \left(1 + 2\, z/h\right)$$

R from Table 15.4-1 (ordinary moment frame) = 1.0 $\Omega_0 = 1.0$
Detailing Requirement AISC 360

$$F_p = \frac{.4(1)\, S_{DS} W}{\left(\frac{1}{1}\right)} \left(1 + 2(1)\right) = 1.2\, S_{DS} W$$

ASD $F_p \times .7 = 1.2 \times .7\, S_{DS} W = .84\, S_{DS} W$

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. A3 of 3

Subject T4 Berth 401 Rack Job No. 086409002

Seismic

$S_s = .98$ $S_1 = .35$ Soil Class E

$F_a = .9$ $S_{ms} = F_a S_s = .9 \times .98 = .88$ $F_v = 2.6$

$S_{DS} = 2/3\, S_{ms} = .67 \times .88 = .59$ $S_{m1} = F_v S_1 = 2.6 \times .35 = .91$

Response Spectrum

For $T < T_0$ $S_a = S_{DS}\left(.4 + .6\, T/T_0\right)$

$T_0 = .2 \times \frac{S_{D1}}{S_{DS}}$ $S_{D1} = 2/3\, S_{m1} = .67 \times .91 = .61$

$T_s = \frac{S_{D1}}{S_{DS}} = \frac{.61}{.59} = 1.03$ $T_0 = .2 \times 1.03 = .21$

For $T > T_s$ $S_a = \frac{S_{D1}}{T}$

Response Spectrum $C_s = .84 \times .59 = 0.50$

T	Sa
.01	.25
.10	.40
.21	.59
.4	.59
.6	.59
.8	.59
1.03	.59
1.2	.51
1.4	.44
1.6	.38
2.0	.31
4.0	.15

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By L. Lewis Date 9/04 Client Port of Portland Sheet No. B1 of 7

Subject T4 Berth 401 Rack Job No. 1086409002

B Frame Computer Model

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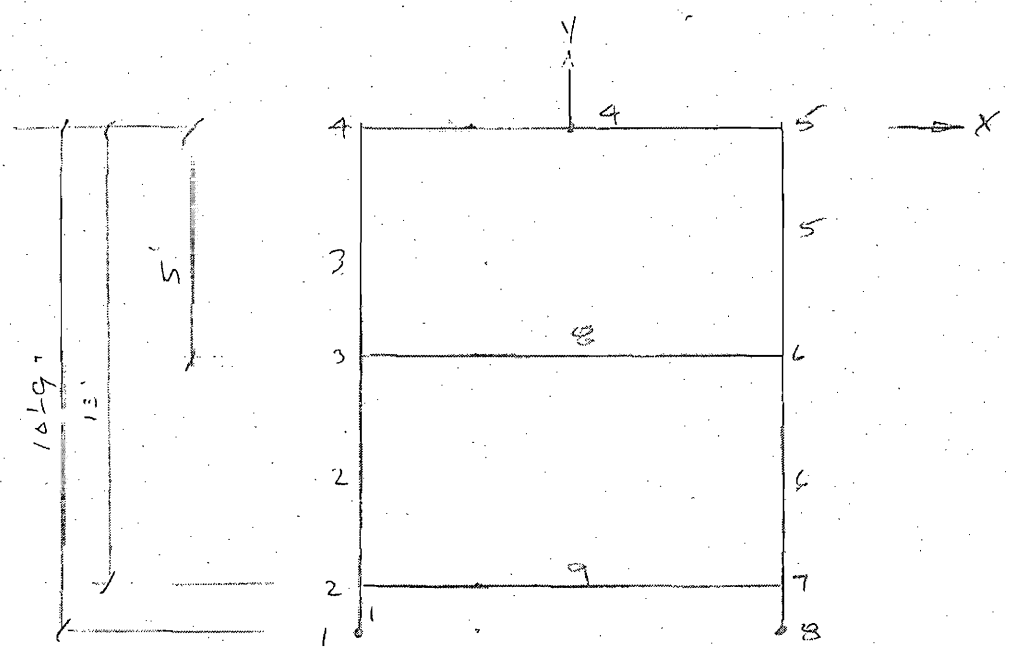
By L. Lewis Date 9/09 Client Port of Portland Sheet No. B2 of 7

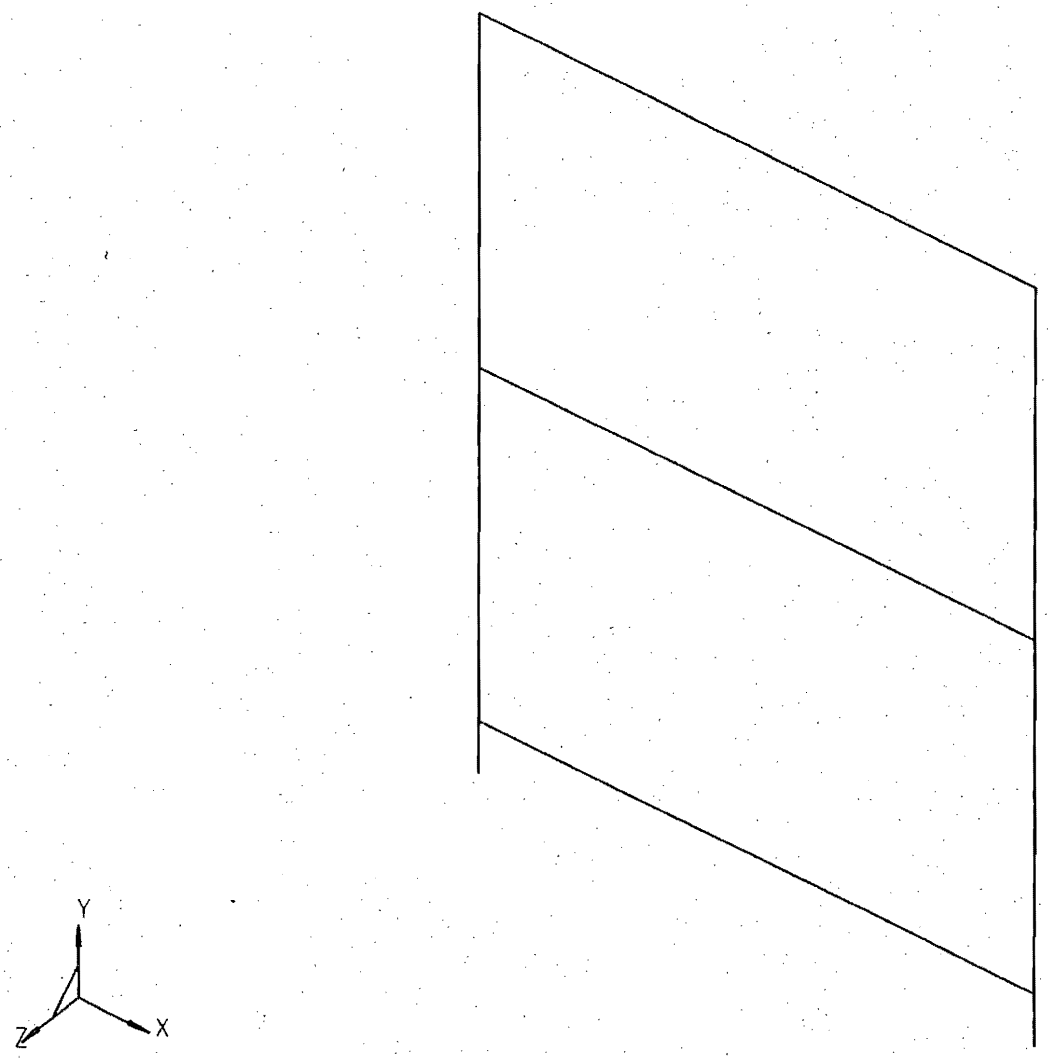
Subject Berth 401 Rock Job No. 1086409002

2D Model



Support Joints 1, 8

Support Joint Releases 1 Mom z
8 Mom z



UNDEFORMED SHAPE

POP T4 ELEVATED PIPE RACK

EDP - EXTENDED DESIGN PROGRAM
V3.99 09-22- 2 14:44:43
DIGITAL STRUCTURES, INC. 1

B3/7

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. B4 of 7

Subject Berth 501 Rack Job No. 1086409002

Gravity Loads

Three support beam loads w/ pipe loads = 400 #/ft

Pipe loads are modelled by increasing density of pipe support beams.

Pipe Load = $\frac{.4 \times 20}{5}$ = 1.00 k/ft Beam Wt = 20 #/ft

Total wt/ft = 1.02 k/ft W6x20 A = .041 ft²

Density = $\frac{1.02}{.041}$ = 24.9 k/ft³

B5/7


```
AHALF
AHEAD  POP T4 Elevated Pipe Rack
AHEAD
AHEAD
AHEAD
AHEAD
AHEAD     Global Axis orientation:
AHEAD
AHEAD                  ----------> X-DIR Centerline Bridge
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 |
AHEAD                 V
AHEAD               y-DIR
AHEAD
AHEAD
AHEAD
AHEAD  ANALYSIS: EIGENSOLUTION & RESPONSE SPECTRUM (40 MODES)
AHEAD
*
AHEAD UNITS: KIPS, FEET, RADIANS, SECONDS
APRIN    A    B    C    H
*
*
*_____________________________________________________
* LOADS DEFINITION
*_____________________________________________________
BLOAD    1   -2 Generated Dead Load (Steel)d
*
BWATR   -Y    -100.0     0.064        1.       32.2        1.
*
*_____________________________________________________
* NODES DEFINITION
*_____________________________________________________
*  Bottom Truss Nodes
CNODE    1     -4.00    -10.75      0.00
CNODE    2     -4.00    -10.00      0.00
CNODE    3     -4.00     -5.00      0.00
CNODE    4     -4.00      0.00      0.00
CNODE    5      4.00      0.00      0.00
CNODE    6      4.00     -5.00      0.00
CNODE    7      4.00    -10.00      0.00
CNODE    8      4.00    -10.75      0.00
*CNODE    9      4.50    -13.00      0.00
*
*_____________________________________________
* NODE FIXITIES
*_____________________________________________
DFIX     1    2    2    2    2    2    0
DFIX     8    2    2    2    2    2    0
DFIX     4              1
DFIX     5              1
*DFIX     9    2    2    2    2    2    0
*
*_____________________________________________
* MATERIAL PROPERTIES
*_____________________________________________
EBEAM BRIDGE
* MATERIAL          E    POISSON    WT DEN        FY
* Material Density increased by factor 1.05
EBMAT    1  4176000.      0.30      0.519    7200.0
* SUPPORT BEAMS
* Material Density increased by factor
EBMAT    2  4176000.      0.30      24.90    7200.0
*
*_____________________________________________________
* MEMBER PROPERTIES
*_____________________________________________________
*                  Ax        Ay        Az        Ix        Iy        Iz   dy   dz
* W 8x31 section (strong axis = z axis)
EBSEC    1    0.0630     0.250     0.760    0.0001    0.0018    0.0053 0.33 0.33
*
* W8x24   section (strong axis = z axis)
EBSEC    2     0.049     0.280     0.690    0.0001    .00090    .00400 0.33 0.27
*
* W6x20 section (strong axis = z axis)
EBSEC    3    0.0410     0.270     0.750    0.0001    0.0006    0.0020 0.26 0.25
*
*_____________________________________________
* MEMBER DEFINITIONS
*_____________________________________________
*
EBMEM    1    1    2         1    2    0    000000    000000
```

BL/7


```
EBMEM    2    2    3        1    2    0    000000    000000
EBMEM    3    3    4        1    2    0    000000    000000
EBMEM    4    4    5        2    3    0    000000    000000
EBMEM    5    5    6        1    2    0    000000    000000
EBMEM    6    6    7        1    2    0    000000    000000
EBMEM    7    7    8        1    2    0    000000    000000
EBMEM    8    3    6        2    3    0    000000    000000
EBMEM    9    2    7        2    3    0    000000    000000
*EBMEM   10    8    9        1    1    0    000000    000000
*
*FLOAD  101    2          0.000    -0.560     0.000      0.00       0.0      0.00
*FLOAD  102    2          0.000    -0.560
*FLOAD  103    2                   -0.560
*FLOAD  104    2                   -0.560
*FLOAD  105    2                   -0.560
*FLOAD  106    2                   -0.560
*FLOAD  107    2                   -0.560
*FLOAD  108    2                   -0.560
*FLOAD  109    2                   -0.560
*
FSUMM    0
*
*_____________________________________________________________
* LOAD COMBINATION
*_____________________________________________________________
* ==> Static Load Case to be combined with Seismic Case <==
*
FHEAD  Gen. DL + Add. DL + Operating Loads + Live Loads
*
FCASE    1    1          1.08
*FCASE    1    2          1.00
*FCASE    1   10          0.00
*FCASE    1   32          0.00
*FCASE    1   33          0.00
*FCASE    1   41          0.00
*
*_____________________________________________________________
* MASS DISTRIBUTION
*_____________________________________________________________
* Upper Deck
*GMASS  101    0          0.018     0.018     0.018
*GMASS  102    0          0.018     0.018     0.018
*GMASS  103    0          0.018     0.018     0.018
*GMASS  104    0          0.018     0.018     0.018
*GMASS  105    0          0.018     0.018     0.018
*GMASS  106    0          0.018     0.018     0.018
*GMASS  107    0          0.018     0.018     0.018
*GMASS  108    0          0.018     0.018     0.018
*GMASS  109    0          0.018     0.018     0.018
*
GSUMM    0
*
GSCAL    0       1.0       1.0       1.0       1.0       1.0
*
*     ** RESPONSE SPECTRAL CURVE **
*     API C2.3.6c
*     Soils profile Type B, Zone 4, G=0.25
*
GCURV    1     0.010    0.2500                32.17
GCURV          0.100    0.4000
GCURV          0.210    0.5900
GCURV          0.400    0.5900
GCURV          0.600    0.5900
GCURV          0.800    0.5900
GCURV          1.030    0.5900
GCURV          1.200    0.5100
GCURV          1.400    0.4400
GCURV          1.600    0.3800
GCURV          2.000    0.3100
GCURV          4.000    0.1500
*
GRESP    1 +CQC         1 1.05                     0.05
GRESP    1 -CQC         1 1.05                     0.05
*GRESP    1 +CQC                              1 0.45 0.05
*GRESP    1 -CQC                              1 0.45 0.05
*
** LISTING OF ADDED NODES & MEMBERS
*HNODE 5065 5000 5009 5022 5122 5600 5029 5601 5136 5036 5045 5058 5072
*HNODE 6000 6006 7065 7000 7009 7022 7122 7600 7028 7029 7030 7601 7136
*HNODE 7036 7045 7058 7072
*HNODE 1000 -445
**
*HGRUP    2  DUMMY111    0
*       8700-8706
```

```
*#END
*
*
* ANALYSIS REQUEST
*
* Linear Static Analysis
ZSTAT    1    3    0
*
* Eigensolution (40 modes)
ZEIGN   10    0
*
* RESPONSE SPECTRUM ANALYSIS
*
ZRESP    3    3    0              8    0    0
*
** Non-linear static pushover analysis
*ZPUSH    2    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                 1.0
**
*ZPUSH    5    2    1    5    1    0    0    0    0
*              .00001    .00001    .00001     1000.
*                           1.0
*
**
*ZSNAP    0    2    0              2
*
* PLOT REQUEST
*
*ZPLOT    1    1    0    0    0  DUMMY111   'OSPREY' DECK STRUCTURE
*                0.00      0.10      1.00       0.00     1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' PRODUCTION STRUCTURE
*                1.00      1.00      1.00       0.00     1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      PAGE
*      MODE              1
*      PAGE
*      MODE              2
*      PAGE
*      MODE              3
*      PAGE
*      MODE              4
*      PAGE
*      MODE              5
*      END
**
*ZPLOT    1    1    0    0    0             'OSPREY' DECK STRUCTURE
*                0.00      0.00      1.00       0.00     1.00      0.00
*                1.00      1.00      1.00
*      UNDF
*      END
***
ZPLOT   -1    1    1    0    0             POP T4 ELEVATED PIPE RACK
                0.80     1.000      1.00       0.00     1.00      0.00
                1.00      1.00      1.00
      UNDF
      END
***
```

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. C-1 of 2

Subject T4 Berth 461 Rack Job No. 1086409002

C Gravity Load Analysis

.....STATIC NODE REACTIONS

NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	ANGLE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
1	1	-3.0043E+00	-1.3526E+01	0.0000E+00	-1.35E+01	3.00E+00	-90.00	0.0000E+00	0.0000E+00	0.0000E+00
8	1	3.0043E+00	-1.3526E+01	0.0000E+00	-1.35E+01	3.00E+00	90.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	1	4.4409E-16	-2.7052E+01	0.0000E+00	-2.71E+01	4.44E-16	90.00	0.0000E+00	0.0000E+00	0.0000E+00

Includes 8% Grav. for Vert. Seismic Grav = 2<.0K

STATIC = 3 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 26

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
1	1	1	1.353E+01	3.004E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-2.76E+02	0.00E+00	0.00E+00	0.038
			-1.352E+01	-3.004E+00	0.000E+00	0.000E+00	0.000E+00	1.127E+00	-2.76E+02	0.00E+00	7.60E+01	0.049
		2	-1.351E+01	-3.004E+00	0.000E+00	0.000E+00	0.000E+00	2.253E+00	-2.76E+02	0.00E+00	1.52E+02	0.059
2	1	2	9.095E+00	1.140E+00	0.000E+00	0.000E+00	0.000E+00	3.151E+00	-1.86E+02	0.00E+00	2.13E+02	0.055
			-9.027E+00	-1.140E+00	0.000E+00	0.000E+00	0.000E+00	-3.020E-01	-1.84E+02	0.00E+00	-2.04E+01	0.028
		3	-8.958E+00	-1.140E+00	0.000E+00	0.000E+00	0.000E+00	2.547E+00	-1.83E+02	0.00E+00	1.72E+02	0.049
3	1	3	4.548E+00	1.606E+00	0.000E+00	0.000E+00	0.000E+00	3.046E+00	-9.28E+01	0.00E+00	2.06E+02	0.041
			-4.479E+00	-1.606E+00	0.000E+00	0.000E+00	0.000E+00	9.702E-01	-9.14E+01	0.00E+00	6.55E+01	0.022
		4	-4.410E+00	-1.606E+00	0.000E+00	0.000E+00	0.000E+00	4.986E+00	-9.00E+01	0.00E+00	3.37E+02	0.059
4	1	4	1.606E+00	4.410E+00	0.000E+00	0.000E+00	0.000E+00	4.986E+00	-3.92E+01	0.00E+00	6.23E+02	0.092
			-1.606E+00	-1.110E-16	0.000E+00	0.000E+00	0.000E+00	3.834E+00	-3.92E+01	0.00E+00	4.79E+02	0.072
		5	-1.606E+00	4.410E+00	0.000E+00	0.000E+00	0.000E+00	-4.986E+00	-3.92E+01	0.00E+00	-6.23E+02	0.092
5	1	5	4.410E+00	1.606E+00	0.000E+00	0.000E+00	0.000E+00	4.986E+00	-9.00E+01	0.00E+00	3.37E+02	0.059
			-4.479E+00	-1.606E+00	0.000E+00	0.000E+00	0.000E+00	-9.702E-01	-9.14E+01	0.00E+00	-6.55E+01	0.022
		6	-4.548E+00	-1.606E+00	0.000E+00	0.000E+00	0.000E+00	3.046E+00	-9.28E+01	0.00E+00	2.06E+02	0.041
6	1	6	8.958E+00	1.140E+00	0.000E+00	0.000E+00	0.000E+00	2.547E+00	-1.83E+02	0.00E+00	1.72E+02	0.049
			-9.027E+00	-1.140E+00	0.000E+00	0.000E+00	0.000E+00	3.020E-01	-1.84E+02	0.00E+00	2.04E+01	0.028
		7	-9.095E+00	-1.140E+00	0.000E+00	0.000E+00	0.000E+00	3.151E+00	-1.86E+02	0.00E+00	2.13E+02	0.055
7	1	7	1.351E+01	3.004E+00	0.000E+00	0.000E+00	0.000E+00	2.253E+00	-2.76E+02	0.00E+00	1.52E+02	0.059
			-1.352E+01	-3.004E+00	0.000E+00	0.000E+00	0.000E+00	-1.127E+00	-2.76E+02	0.00E+00	-7.60E+01	0.049
		8	-1.353E+01	-3.004E+00	0.000E+00	0.000E+00	0.000E+00	8.882E-16	-2.76E+02	0.00E+00	6.00E-14	0.038
8	1	3	-4.669E-01	4.410E+00	0.000E+00	0.000E+00	0.000E+00	5.593E+00	1.14E+01	0.00E+00	6.99E+02	0.099
			4.669E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.228E+00	1.14E+01	0.00E+00	4.03E+02	0.058
		6	4.669E-01	4.410E+00	0.000E+00	0.000E+00	0.000E+00	-5.593E+00	1.14E+01	0.00E+00	-6.99E+02	0.099
9	1	2	1.865E+00	4.410E+00	0.000E+00	0.000E+00	0.000E+00	5.404E+00	-4.55E+01	0.00E+00	6.76E+02	0.100
			-1.865E+00	2.776E-17	0.000E+00	0.000E+00	0.000E+00	3.417E+00	-4.55E+01	0.00E+00	4.27E+02	0.066
		7	-1.865E+00	4.410E+00	0.000E+00	0.000E+00	0.000E+00	-5.404E+00	-4.55E+01	0.00E+00	-6.76E+02	0.100

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By L. Lewis Date 9/09 Client Port of Oakland Sheet No. D1 of 5

Subject T4 Berth 401 Rock Job No. 1086409002

D Seismic Analysis

EIGN RES = 1 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 27

.....EIGENSOLUTION

VECTOR	FREQUENCY (RAD/SEC)	FREQUENCY (HZ)	PERIOD (SEC)	PARTICIPATION FACTORS X	Y	Z	CONVERGENCE RATIO	MODAL MASS X	Y	Z	CUM MASS X	Y	Z	NON-CONV
1	2.5843E+01	4.1131E+00	2.4313E-01	7.2464E-01	-1.1384E-18	0.0000E+00	8.5112E-16	67	0	0	67	0	0	
2	4.8718E+01	7.7537E+00	1.2897E-01	0.0000E+00	0.0000E+00	5.3362E-01	0.0000E+00	0	0	54	67	0	54	
3	4.9361E+01	7.8560E+00	1.2729E-01	0.0000E+00	0.0000E+00	2.9416E-13	1.8664E-16	0	0	0	67	0	54	
4	1.0539E+02	1.6773E+01	5.9619E-02	2.5442E-01	3.1984E-18	0.0000E+00	1.1529E-13	8	0	0	75	0	54	
5	3.2914E+02	5.2385E+01	1.9090E-02	-7.6060E-11	7.4175E-01	0.0000E+00	3.7611E-15	0	70	0	75	70	54	
6	3.3231E+02	5.2889E+01	1.8908E-02	2.3562E-04	-6.3363E-12	0.0000E+00	2.0952E-14	0	0	0	75	70	54	
7	3.6203E+02	5.7619E+01	1.7355E-02	4.3299E-01	-6.3574E-13	0.0000E+00	1.3323E-13	24	0	0	99	70	54	
8	4.4577E+02	7.0947E+01	1.4095E-02	0.0000E+00	0.0000E+00	4.8473E-01	2.9292E-15	0	0	45	99	70	99	
9	4.4645E+02	7.1054E+01	1.4074E-02	0.0000E+00	0.0000E+00	1.0532E-10	2.9204E-15	0	0	0	99	70	99	
10	5.7504E+02	9.1521E+01	1.0926E-02	1.8092E-07	1.2625E-11	0.0000E+00	2.4954E-10	0	0	0	99	70	99	

WARNING- NUMBER OF EIGENVALUES USED FOR ZRESP(8) IS LESS THAN THE NUMBER OF EIGENVALUES (10)

SEISMIC = 1 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 28

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 1

NODE NUMBER	TRANSLATIONS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ	NODE TYPE
1	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	0.0000E+00	0.0000E+00	-3.1849E-03	
2	-2.3689E-03	-9.0764E-05	0.0000E+00	-9.08E-05	2.37E-03	-90.00	0.0000E+00	0.0000E+00	-3.1470E-03	
3	-2.1470E-02	-4.8392E-04	0.0000E+00	-4.84E-04	2.15E-02	-90.00	0.0000E+00	0.0000E+00	-3.1288E-03	
4	-3.6595E-02	-6.6223E-04	0.0000E+00	-6.62E-04	3.66E-02	-90.00	0.0000E+00	0.0000E+00	-2.4405E-03	
5	-3.6670E-02	-6.6223E-04	0.0000E+00	-6.62E-04	3.67E-02	-90.00	0.0000E+00	0.0000E+00	-1.5842E-03	
6	-2.1449E-02	-4.8392E-04	0.0000E+00	-4.84E-04	2.14E-02	-90.00	0.0000E+00	0.0000E+00	-2.8533E-03	
7	-2.4560E-03	-9.0764E-05	0.0000E+00	-9.08E-05	2.46E-03	-90.00	0.0000E+00	0.0000E+00	-2.6908E-03	
8	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	0.0000E+00	0.0000E+00	-2.8298E-03	

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 1

	MINIMUM TRANSLATIONS X	Y	Z	MINIMUM ROTATIONS XX	YY	ZZ	MAXIMUM TRANSLATIONS X	Y	Z	MAXIMUM ROTATIONS XX	YY	ZZ
NODE	5	5	8	8	8	1	8	8	8	8	8	5
DISP	-3.67E-02	-6.62E-04	0.00E+00	0.00E+00	0.00E+00	-3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.58E-03

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SEISMIC = 2 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 29

.....SEISMIC NODE DISPLACEMENTS SEISMIC LOAD CASE = 2

NODE NUMBER	TRANSLATIONS X	Y	Z	VERTICAL	LATERAL	ANGLE-Z	ROTATIONS XX	YY	ZZ	NODE TYPE
1	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	0.0000E+00	0.0000E+00	-3.1849E-03	
2	-2.3689E-03	-9.0764E-05	0.0000E+00	-9.08E-05	2.37E-03	-90.00	0.0000E+00	0.0000E+00	-3.1470E-03	
3	-2.1470E-02	-4.8392E-04	0.0000E+00	-4.84E-04	2.15E-02	-90.00	0.0000E+00	0.0000E+00	-3.1288E-03	
4	-3.6595E-02	-6.6223E-04	0.0000E+00	-6.62E-04	3.66E-02	-90.00	0.0000E+00	0.0000E+00	-2.4405E-03	
5	-3.6670E-02	-6.6223E-04	0.0000E+00	-6.62E-04	3.67E-02	-90.00	0.0000E+00	0.0000E+00	-1.5842E-03	
6	-2.1449E-02	-4.8392E-04	0.0000E+00	-4.84E-04	2.14E-02	-90.00	0.0000E+00	0.0000E+00	-2.8533E-03	
7	-2.4560E-03	-9.0764E-05	0.0000E+00	-9.08E-05	2.46E-03	-90.00	0.0000E+00	0.0000E+00	-2.6908E-03	
8	0.0000E+00	0.0000E+00	0.0000E+00	0.00E+00	0.00E+00	0.00	0.0000E+00	0.0000E+00	-2.8298E-03	

.....PRINTED NODE DISPLACEMENT ENVELOPES FOR SEISMIC CASE 2

	MINIMUM TRANSLATIONS X	Y	Z	MINIMUM ROTATIONS XX	YY	ZZ	MAXIMUM TRANSLATIONS X	Y	Z	MAXIMUM ROTATIONS XX	YY	ZZ
NODE	5	5	8	8	8	1	8	8	8	8	8	5
DISP	-3.67E-02	-6.62E-04	0.00E+00	0.00E+00	0.00E+00	-3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.58E-03

SEISMIC = 3 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 30

.....SEISMIC NODE DISPLACEMENT ENVELOPE SUMMARY

SEIS CASE		MINIMUM TRANSLATIONS X	Y	Z	MINIMUM ROTATIONS XX	YY	ZZ	MAXIMUM TRANSLATIONS X	Y	Z	MAXIMUM ROTATIONS XX	YY	ZZ
1	NODE	5	5	7	7	7	1	2	2	7	7	7	5
	DISP	-3.67E-02	-6.62E-04	0.00E+00	0.00E+00	0.00E+00	-3.18E-03	-2.37E-03	-9.08E-05	0.00E+00	0.00E+00	0.00E+00	-1.58E-03
2	NODE	5	5	7	7	7	1	2	2	7	7	7	5
	DISP	-3.67E-02	-6.62E-04	0.00E+00	0.00E+00	0.00E+00	-3.18E-03	-2.37E-03	-9.08E-05	0.00E+00	0.00E+00	0.00E+00	-1.58E-03

SEISMIC = 4 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 31

.....SEISMIC NODE REACTIONS

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NODE NUMBER	LOAD CASE	FORCE X	FORCE Y	FORCE Z	VERTICAL	LATERAL	DEGREE-Z	MOMENT XX	MOMENT YY	MOMENT ZZ
1	1	2.3192E+00	-2.2786E+00	0.0000E+00	-2.28E+00	2.32E+00	90.00	0.0000E+00	0.0000E+00	0.0000E+00
8	1	8.3277E+00	-2.2786E+00	0.0000E+00	-2.28E+00	8.33E+00	90.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	1	1.0647E+01	-4.5573E+00	0.0000E+00	-4.56E+00	1.06E+01	90.00	0.0000E+00	0.0000E+00	0.0000E+00
1	2	-8.3277E+00	-2.4774E+01	0.0000E+00	-2.48E+01	8.33E+00	-90.00	0.0000E+00	0.0000E+00	0.0000E+00
8	2	-2.3192E+00	-2.4774E+01	0.0000E+00	-2.48E+01	2.32E+00	-90.00	0.0000E+00	0.0000E+00	0.0000E+00
TOTAL	2	-1.0647E+01	-4.9547E+01	0.0000E+00	-4.95E+01	1.06E+01	-90.00	0.0000E+00	0.0000E+00	0.0000E+00

SEISMIC = 5 POP T4 Elevated Pipe Rack [02-26- 9 20:49:21]EDP-PAGE = 32

.....BEAM FORCES AND STRESSES BRIDGE

BEAM NUMBER	LOAD CASE	NODE NUMBER	AXIAL RX	SHEAR RY	SHEAR RZ	TORSION MX	BENDING MY	BENDING MZ	STRESSES AXIAL	STRESSES BEND-Y	STRESSES BEND-Z	CONTRL UTILIZ
1	1	1	2.477E+01	8.328E+00	0.000E+00	0.000E+00	0.000E+00	9.833E-15	-5.06E+02	0.00E+00	6.64E-13	0.070
			-2.268E+00	2.319E+00	0.000E+00	0.000E+00	0.000E+00	3.123E+00	-4.63E+01	0.00E+00	2.11E+02	0.036
		2	-2.258E+00	2.319E+00	0.000E+00	0.000E+00	0.000E+00	6.246E+00	-4.61E+01	0.00E+00	4.22E+02	0.065
1	2	1	2.279E+00	-2.319E+00	0.000E+00	0.000E+00	0.000E+00	-9.833E-15	-4.65E+01	0.00E+00	-6.64E-13	0.006
			-2.476E+01	-8.328E+00	0.000E+00	0.000E+00	0.000E+00	-8.697E-01	-5.05E+02	0.00E+00	-5.87E+01	0.078
		2	-2.475E+01	-8.328E+00	0.000E+00	0.000E+00	0.000E+00	-1.739E+00	-5.05E+02	0.00E+00	-1.17E+02	0.086
2	1	2	1.616E+01	6.174E+00	0.000E+00	0.000E+00	0.000E+00	1.597E+01	-3.30E+02	0.00E+00	1.08E+03	0.196
			-1.963E+00	3.895E+00	0.000E+00	0.000E+00	0.000E+00	2.136E-01	-4.01E+01	0.00E+00	1.44E+01	0.008
		3	-1.894E+00	3.895E+00	0.000E+00	0.000E+00	0.000E+00	1.492E+01	-3.87E+01	0.00E+00	1.01E+03	0.145
2	2	2	2.031E+00	-3.895E+00	0.000E+00	0.000E+00	0.000E+00	-9.670E+00	-4.15E+01	0.00E+00	-6.53E+02	0.096
			-1.609E+01	-6.174E+00	0.000E+00	0.000E+00	0.000E+00	-8.176E-01	-3.28E+02	0.00E+00	-5.52E+01	0.053
		3	-1.602E+01	-6.174E+00	0.000E+00	0.000E+00	0.000E+00	-9.822E+00	-3.27E+02	0.00E+00	-6.63E+02	0.137
3	1	3	7.367E+00	4.782E+00	0.000E+00	0.000E+00	0.000E+00	7.820E+00	-1.50E+02	0.00E+00	5.28E+02	0.094
			-1.659E+00	1.569E+00	0.000E+00	0.000E+00	0.000E+00	4.266E+00	-3.39E+01	0.00E+00	2.88E+02	0.045
		4	-1.591E+00	1.569E+00	0.000E+00	0.000E+00	0.000E+00	1.616E+01	-3.25E+01	0.00E+00	1.09E+03	0.156
3	2	3	1.728E+00	-1.569E+00	0.000E+00	0.000E+00	0.000E+00	-1.728E+00	-3.53E+01	0.00E+00	-1.17E+02	0.021
			-7.299E+00	-4.782E+00	0.000E+00	0.000E+00	0.000E+00	-2.326E+00	-1.49E+02	0.00E+00	-1.57E+02	0.042
		4	-7.230E+00	-4.782E+00	0.000E+00	0.000E+00	0.000E+00	-6.192E+00	-1.48E+02	0.00E+00	-4.18E+02	0.079
4	1	4	1.606E+00	7.205E+00	0.000E+00	0.000E+00	0.000E+00	1.616E+01	-3.92E+01	0.00E+00	2.02E+03	0.286
			-1.606E+00	2.795E+00	0.000E+00	0.000E+00	0.000E+00	3.834E+00	-3.92E+01	0.00E+00	4.79E+02	0.072
		5	-1.606E+00	7.205E+00	0.000E+00	0.000E+00	0.000E+00	6.192E+00	-3.92E+01	0.00E+00	7.74E+02	0.113
4	2	4	1.606E+00	1.616E+00	0.000E+00	0.000E+00	0.000E+00	-6.192E+00	-3.92E+01	0.00E+00	-7.74E+02	0.113
			-1.606E+00	-2.795E+00	0.000E+00	0.000E+00	0.000E+00	3.834E+00	-3.92E+01	0.00E+00	4.79E+02	0.072
		5	-1.606E+00	1.616E+00	0.000E+00	0.000E+00	0.000E+00	-1.616E+01	-3.92E+01	0.00E+00	-2.02E+03	0.286
5	1	5	7.230E+00	4.782E+00	0.000E+00	0.000E+00	0.000E+00	1.616E+01	-1.48E+02	0.00E+00	1.09E+03	0.172
			-1.659E+00	1.569E+00	0.000E+00	0.000E+00	0.000E+00	2.326E+00	-3.39E+01	0.00E+00	1.57E+02	0.027

D4/5

		6	-1.728E+00	1.569E+00	0.000E+00	0.000E+00	0.000E+00	7.820E+00	-3.53E+01	0.00E+00	5.28E+02	0.078
5	2	5	1.591E+00	-1.569E+00	0.000E+00	0.000E+00	0.000E+00	-6.192E+00	-3.25E+01	0.00E+00	-4.18E+02	0.063
			-7.299E+00	-4.782E+00	0.000E+00	0.000E+00	0.000E+00	-4.266E+00	-1.49E+02	0.00E+00	-2.88E+02	0.061
		6	-7.367E+00	-4.782E+00	0.000E+00	0.000E+00	0.000E+00	-1.728E+00	-1.50E+02	0.00E+00	-1.17E+02	0.037
6	1	6	1.602E+01	6.174E+00	0.000E+00	0.000E+00	0.000E+00	1.492E+01	-3.27E+02	0.00E+00	1.01E+03	0.185
			-1.963E+00	3.895E+00	0.000E+00	0.000E+00	0.000E+00	8.176E-01	-4.01E+01	0.00E+00	5.52E+01	0.013
		7	-2.031E+00	3.895E+00	0.000E+00	0.000E+00	0.000E+00	1.597E+01	-4.15E+01	0.00E+00	1.08E+03	0.155
6	2	6	1.894E+00	-3.895E+00	0.000E+00	0.000E+00	0.000E+00	-9.822E+00	-3.87E+01	0.00E+00	-6.63E+02	0.097
			-1.609E+01	-6.174E+00	0.000E+00	0.000E+00	0.000E+00	-2.136E-01	-3.28E+02	0.00E+00	-1.44E+01	0.048
		7	-1.616E+01	-6.174E+00	0.000E+00	0.000E+00	0.000E+00	-9.670E+00	-3.30E+02	0.00E+00	-6.53E+02	0.136
7	1	7	2.475E+01	8.328E+00	0.000E+00	0.000E+00	0.000E+00	6.246E+00	-5.05E+02	0.00E+00	4.22E+02	0.129
			-2.268E+00	2.319E+00	0.000E+00	0.000E+00	0.000E+00	8.697E-01	-4.63E+01	0.00E+00	5.87E+01	0.015
		8	-2.279E+00	2.319E+00	0.000E+00	0.000E+00	0.000E+00	1.395E-15	-4.65E+01	0.00E+00	9.41E-14	0.006
7	2	7	2.258E+00	-2.319E+00	0.000E+00	0.000E+00	0.000E+00	-1.739E+00	-4.61E+01	0.00E+00	-1.17E+02	0.023
			-2.476E+01	-8.328E+00	0.000E+00	0.000E+00	0.000E+00	-3.123E+00	-5.05E+02	0.00E+00	-2.11E+02	0.099
		8	-2.477E+01	-8.328E+00	0.000E+00	0.000E+00	0.000E+00	3.816E-16	-5.06E+02	0.00E+00	2.58E-14	0.070
8	1	3	-4.669E-01	8.638E+00	0.000E+00	0.000E+00	0.000E+00	2.250E+01	1.14E+01	0.00E+00	2.81E+03	0.392
			4.669E-01	4.228E+00	0.000E+00	0.000E+00	0.000E+00	3.228E+00	1.14E+01	0.00E+00	4.03E+02	0.058
		6	4.669E-01	8.638E+00	0.000E+00	0.000E+00	0.000E+00	1.132E+01	1.14E+01	0.00E+00	1.41E+03	0.198
8	2	3	-4.669E-01	1.824E-01	0.000E+00	0.000E+00	0.000E+00	-1.132E+01	1.14E+01	0.00E+00	-1.41E+03	0.198
			4.669E-01	-4.228E+00	0.000E+00	0.000E+00	0.000E+00	3.228E+00	1.14E+01	0.00E+00	4.03E+02	0.058
		6	4.669E-01	1.824E-01	0.000E+00	0.000E+00	0.000E+00	-2.250E+01	1.14E+01	0.00E+00	-2.81E+03	0.392
9	1	2	1.865E+00	8.596E+00	0.000E+00	0.000E+00	0.000E+00	2.215E+01	-4.55E+01	0.00E+00	2.77E+03	0.391
			-1.865E+00	4.186E+00	0.000E+00	0.000E+00	0.000E+00	3.417E+00	-4.55E+01	0.00E+00	4.27E+02	0.066
		7	-1.865E+00	8.596E+00	0.000E+00	0.000E+00	0.000E+00	1.134E+01	-4.55E+01	0.00E+00	1.42E+03	0.203
9	2	2	1.865E+00	2.241E-01	0.000E+00	0.000E+00	0.000E+00	-1.134E+01	-4.55E+01	0.00E+00	-1.42E+03	0.203
			-1.865E+00	-4.186E+00	0.000E+00	0.000E+00	0.000E+00	3.417E+00	-4.55E+01	0.00E+00	4.27E+02	0.066
		7	-1.865E+00	2.241E-01	0.000E+00	0.000E+00	0.000E+00	-2.215E+01	-4.55E+01	0.00E+00	-2.77E+03	0.391

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By L Lewis Date 9/09 Client Port of Portland Sheet No. E1 of 9

Subject T4 Berth 401 Rack Job No. 1086409002

E. Rack Framing Design

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. 82 of 91

Subject Berth 401 Rack Job No. 1086409002

Beam Design

Beam M = 22.5 ft-k max @ Sec 1

W6x20 Fy = 50 ksi Z = 14.9

$M_{allow} = \frac{14.9 \times 50}{12 \times 1.67}$ 37.2 > 22.5 OK

Column

W8x24 M = 16.2 ft-k max @ Sec 1

P = 7.2 k

Z = 23.2

A = 7.08

r = 1.61

$M_{allow} = \frac{23.2 \times 50}{12 \times 1.67} = 57.9$ ft-k

$KL/r = \frac{11 \times 12}{1.61} = 82$

$P_{allow} = \frac{31.3}{1.67} \times 7.08 = 132.7$ k

OK by inspection

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By L. Lewis Date 7/09 Client Port of Portland Sheet No. E3 of 9

Subject Berth 401 Rack Job No. 1086409002

ck Typ. Frame W6x20 – W8x28 connection for stiffener reqd

AISC J10-1

$R_n = 6.25 \times .465^2 \times 50 = 67.57$

$R_{allow} = 67.57 / 1.67 = 40.46$ k

M_{allow} w/o stiff $= 40.46 \times (.625 - .465)/2 = 19.8$ ft-k

Top W6x20 $M_{max} = 16.2$ ft-k no stiff reqd

Mid W6x20 $M_{max} = 22.5$ ft-k stiff reqd

Bot. W6x20 $M_{max} = 22.2$ ft-k stiff reqd

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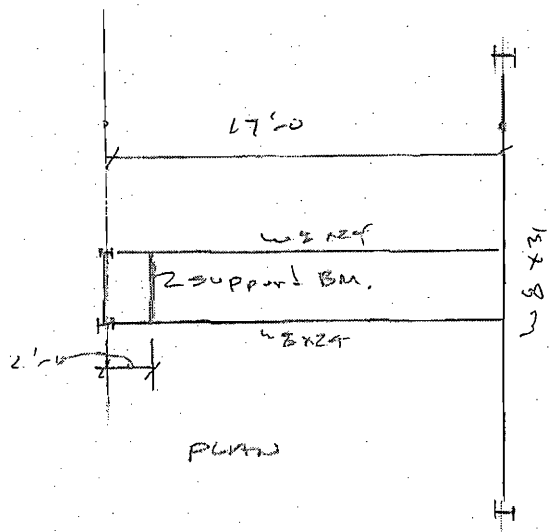
By L. Lewis Date 9/09 Client Port of Portland Sheet No. E4 of 9

Subject Berth 406 Rock Job No. 1086409002

Bridge to containment pens.

Assume bridge supports 1-10" ϕ & 1-12" ϕ + water fill

wt/ft. = 75.5 + 100 = 176 #/ft



Reaction on Support Bm =

$.176 \times \frac{17}{2} + .176 \times \frac{15}{2} = 2.82k$

W8x24 unsupp. length = 17'

$M_{allow} = 33$ ft-k

$M_{vert} = \frac{.029 \times 17^2}{8} + \left(\frac{2.82}{2} \times 2 \times \frac{15}{17}\right) =$

3.54 ft-k

Weak axis bending W8x24 – $M_{allow} = \frac{8.57 \times 50}{12} = 35.7$ ft-k

ok by Inspection

W8x31 Vert load from bridge = $.171 \times \frac{17}{2} + .048 \times \frac{17}{2} = 1.9k$

$M = \frac{1.9 \times 20}{4} + \frac{.031 \times 20^2}{8} = 12.0$ ft-k M_{allow} 20' unsupp = 50 ft-k.

Weak axis bending - Seismic Load from pipes + supported bms + Vert supp. structure

$.5\left(.176 \times (17+7) + .029 \times 17 \times 2 + 15 \times \frac{.05}{2}\right) = 2.7k$

$M_{yy} = \frac{2.7 \times 20}{4} + \frac{.031 \times 20^2}{8} \times .5 = 14.3$ ft-k $M_{allow} = \frac{50}{12} \times \frac{1.91}{1.67} = 35.2$

$\Delta_{horiz\ seis} = \frac{2.7 \times (240)^3}{48 \times 29 \times 10^3 \times 37.1}$

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E5 of 9

Subject Berth 401 Rack Job No. 1086409002

Rack wt

Typ Frame = W8x28 = 12 x 2 x .028 = .588

3 WL x 20 = 3 x 7.5 x .02 = .450

1.038 k/frame

Frames w/ high col.

= 1.038 + 3 x .020 = 1.122 k

Typ. 5" ϕ sch 40 braces = 20 x .01462 = .292

W 8 x 24 horiz brace = 20 x .024 = .480

W 8 x 31 bm = 20 x .031 = .620

Longitudinal Seismic

assume 100% of horiz brace mass seismic force resisted by diagonal braces

assume 50% of frame mass seismic force resisted by diagonal braces

horiz braces .292 x 13 + 20 x .48 + 5 x .62 = 11.70 k

½ Frames (7 x 1.04 + 6 x 1.12) ½ = 7.0 k

18.7 k

Seismic Force per side (structure wt) = 18.7/2 x .5 = 4.7 k

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E6 of 9

Subject Berth 401 Rack Job No. 1086409002

LONGITUDINAL SEISMIC FORCES

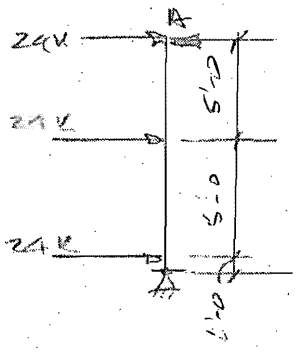
$F = .84 \times .59\, w = .50 w$

Force sys / Level $= .5(.4\,^{k}/_{ft}) = .2\,k/ft$

Rack Length = 240 ft.

Total longitud. Force ea level $= .2 \times 240 = 48\,k$

24 K ea side/each level



$R_A = 24(11+6+1)\,^{1}/_{11} = 39.3\,k$

Locate anchors braced mid-length of rack

Total Horiz. Force/side $= (39.3 + 4.7) = 44.0\,k$

Max Compr. Load = 22.0 k

Strut

5" ⌀ Sch. 40 $A = 4.30''$ $r = 1.88$ in

$\frac{Kl}{r} = \frac{240}{1.88} = 127.7$ $P_{allow} = 4.3 \times \frac{15.2}{1.67} = 39.1 > 22.0$ OK

struts at bridges to containment areas

W8x24 $r = 1.11$ $A = 7.08$ $\frac{Kl}{r} = \frac{240}{1.11} = 149$

$P_{allow} = \frac{7.08 \times 11.3}{1.67} = 48.\,k > 22.0\,k$ OK

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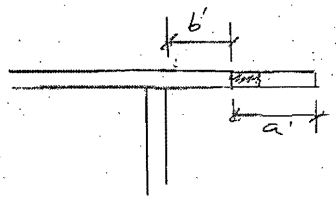
By L. Lewis Date 9/09 Client Port of Portland Sheet No. 27 of 9

Subject Berth 406 Rack Job No. 1086409002

5"ϕ Sch 40 brace end connecting PL
(also applies to W8x24 brace

Brace Tension Load = 22.0k ASD

For Strength design = $\frac{22.0}{.7}$ = 31.4k



assume 3/8" hole

b' = 1¼ − .375 = .875

a' = 1¼ + .375 = 1.625

$\rho = \frac{b'}{a'} = \frac{.875}{1.625} = .538$

Tensile strength of Bolt B =
.75 x 90k x .4918 = 29.8k

T = $\frac{22}{4}$ = 5.5k

$\beta = \frac{1}{.538}\left(\frac{29.8}{5.5} - 1\right) = 8.21$

$\delta = \frac{6-(2\times.81)}{6} = .73$

e = 1.0

$t_{reqd} = \left(\frac{4.44 \times 5.5 \times .875}{.538 \times 50\,(1+.73\times1)}\right)^{1/2} = .677"$

use .75"

5"ϕ brace end at transition to W8x24 brace

b' = 2.75 − .375 = 2.375 a' = 1.25 + .375 = 1.625

ρ = 2.375/1.125 = 1.46 $\beta = \frac{1}{1.46}\left(\frac{29.8}{5.5} - 1\right) = 3.02$ e = 1.0

$t_{reqd} = \left(\frac{4.44 \times 5.5 \times 2.375}{1.46 \times 50\,(1+.73)}\right)^{1/2} = .677"$ use 1" PL

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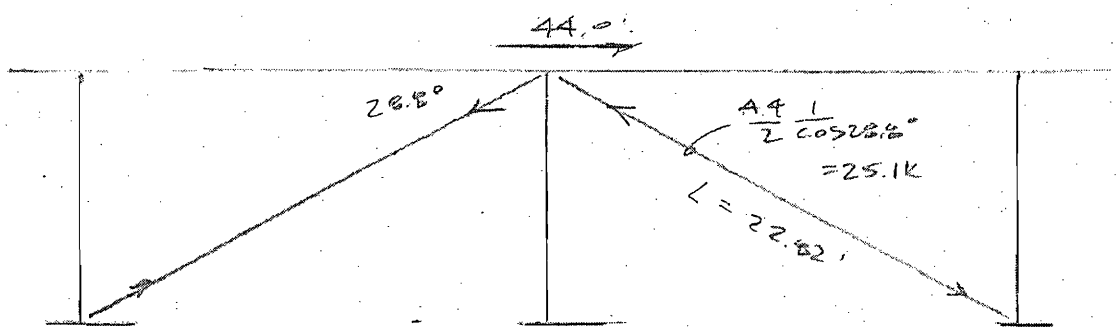
By L Lewis Date 7/09 Client Port of Portland Sheet No. E8 of 9

Subject Berth 401 Rack Job No. 108640 9002

Diagonal Vertical Braces

2 — 5" ϕ Sch 40 Braces on side



$\frac{Kl}{r} = \frac{22.82 \times 12}{1.88} = 145.7$ $P_{allow} = 4.3 \times \frac{11.8}{1.17} = 30.3K > 25.1$ ok

Brace Horiz React = 22.0k
Vert React = 12.1k
Allow shear/rod = 7.3 k

use 6-3/4" ϕ A193 B7 THREADED RODS IN epoxy

Edge distance = 7 − 2.25 = 4.75"

4.75/.75 = 6.3 d Shear Reduction = .65

Anchor Spacing = 6.36 4.36/.75 = 8.5 > 8 ok

Total allowable shear capacity = 6 × .65 × 7.3 = 28.5 > 22 ok

Vert. net reaction = $\left(\frac{.4 \times 20 \times 3}{2}\right) - 12.1 \cong 0k$

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By L. Lewis Date 9/09 Client Port of Portland Sheet No. E9 of 9

Subject T4 Berth 401 Pipe Rack Job No. 1086409002

Evaluate Pier Deck for Rack Frame Column Reactions

EQ perpendicular to Rack Axis Column Reactions

Vert 24.8K ↓ Max 2.3K ↓ MIN

Shear 8.3 k

EQ Parallel to Rack Axis Column Reactions

Vert 24.1K ↓ Max 0 MIN

Shear - 22 K (@ columns)

The columns nearest the outboard face of the pier have their reactions resisted by the special prestressed slab planks that were designed to support the reaction from the gantry crane. The maximum design gantry truck reaction is 2 - 100 k wheel loads spaced 3'-9 on center. OK

The columns at the inboard edge of the pier are connected to a 3'-6" deep cast-in-place edge beam with 3-#10 bars top & bot. OK by inspection

The overall area load of the rack on the pier is approx 1300/8.5 = 153 psf. The pier is designed for a overall uniform live load of 250 psf. The deck area occupied by the rack will not be accessible for additional loads.
The EQ LATERAL loading from the bridge's rack is more than offset by removal of the carrier & conveyor structures.

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By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject _____ Job No. _____

Low Rack Racks

IBC2006 (1613), ASCE 7-05 CHAPTER 11, 12, 13 SEISMIC DESIGN CRITERIA

Soil Site Class E — Table 20-3-1, Default = D

Response Spectral Acc. (0.2 sec) S_s = 98.00%g = 0.980g — Figure 22-1 through 22-14

Response Spectral Acc.(1.0 sec) S_1 = 35.00%g = 0.350g — Figure 22-1 through 22-14

Site Coefficient F_a = 0.924 — Table 11.4-1

Site Coefficient F_v = 2.600 — Table 11.4-2

Max Considered Earthquake Acc. $S_{MS} = F_a.S_s$ = 0.906 — (11.4-1)

Max Considered Earthquake Acc. $S_{M1} = F_v.S_1$ = 0.910 — (11.4-2)

@ 5% Damped Design $S_{DS} = 2/3(S_{MS})$ = 0.604 — (11.4-3)

$S_{D1} = 2/3(S_{M1})$ = 0.607 — (11.4-4)

Building Occupancy Categories: III, Public hazard — Table 1-1

Design Category Consideration: Flexible Diaphragm — with dist. between seismic resisting system >40ft

Seismic Design Category for 0.1sec: D — Table 11.6-1

Seismic Design Category for 1.0sec: D — Table 11.6-2

S1 < .75g: NA — Section 11.6

Since Ta < .8Ts (see below), SDC = D — Control (exception of Section 11.6 does not apply)

Comply with Seismic Design Category D — IRC, Seismic Design Category = Do — T-R301.2.2.1.1

12.8 Equivalent lateral force procedure

Seismic Force Resisting Systems: C. MOMENT-RESISTING FRAME SYSTEMS — 4. Ordinary steel moment frames — T-12.2-1

C_t = 0.028 — x = 0.80 — T-12.8-2

Building ht. H_n = 10 ft — Limited Building Height (ft) = NPh

C_u = 1.400 — for S_{D1} of 0.607g — Table 12.8-1

Approx Fundamental period, $T_a = C_t(h_n)^x$ = 0.177 — 12.8-7 — T_L = 8 Sec

Calculated T shall not exceed ≤ Cu.Ta = 0.247 — Use T = 0.177 sec.

0.8Ts = $0.8(S_{D1}/S_{DS})$ = 0.804 — Control (exception of Section 11.6 does not apply)

Is structure Regular & ≤ 5 stories ? Yes — 12.8.1.3

Response Spectral Acc.(0.2 sec) S_s = 0.980g — *Max Ss ≤ 0.15g*

F_a = 0.92

@ 5% Damped Design $S_{DS} = ⅔(F_a.S_s)$ = 0.604g — (11.4-3)

Response Modification Coef. R = 3.5 — Table-12.2-1

Over Strength Factor Ω_o = 2.5 — foot note g

Importance factor I = 1.25 — Table 11.5-1

Seismic Base Shear V = $C_s W$

$C_s = \frac{S_{DS}}{R/I}$ = 0.216 — (12.8-2)

or need not to exceed, $C_s = \frac{S_{D1}}{(R/I).T}$ = 1.226 — For T≤ T_L — (12.8-3)

or $C_s = \frac{S_{D1}T_L}{T^2(R/I)}$ — N/A — For T > T_L — (12.8-4)

C_s shall not be less than = 0.01 — (12.8-5)

Min C_s = $0.5S_1I/R$ — N/A — For S_1 ≥ 0.6g — (12.8-6)

Use C_s = 0.216

Design base shear V = 0.216 W — Control

12.14 Simplified Seismic base shear: 13. Light-framed walls sheathed with wood structural panels rated for shear resistance or steel sheets — T-12.14-1

@ 5% Damped Design S_{DS} = 0.604 — SDC = D — Limitations: P

F = 1.1 — For two-story building — R = 6.5

$V = \frac{FS_{DS}(W)}{R}$ = 0.102 W

13.3 Seismic Demands on Nonstructural Components

$F_p = \frac{0.4a_pS_{DS}W_p(1+2z/h)}{(R_p/I_p)}$ — (13.3-1) — S_{DS} = 0.604

a_p = 2.5 — R_p = 6 — T-13.5-1 or 13.6-1

I_p = 1.0 — 13.1.3

z = 20 ft — h = 20 ft — F_p = 0.302 Wp

Max $F_p = 1.6S_{DS}I_pW_p$ = 0.966Wp — (13.3-2)

Min $F_p = 0.3S_{DS}I_pW_p$ = 0.181Wp — (13.3-3)

F_p = 0.302 Wp

12.11.1 Structural Walls and Their Anchorage

$F_p = 0.40S_{DS}IW_w$ — 12.11.1

= 0.302(W)

12.11.2 Anchorage of Concrete or Masonry structural Walls (flexible diaphragm)

or $F_p = 400S_{DS}I$ = 302 — shall be ≥ 280 #/ft

$F_p = 0.8S_{DS}I(W_w)$ — (12.11.1)

= 0.604 Wp

Max Seismic Load $E_M = \Omega Q_E \pm 0.2S_{DS}D$ — (12.4.4), (12.4.5), (12.4.6), (12.4.7)

Where Ω_o = 2.5

$0.2S_{DS}D$ = 0.121(D)

Deflection Amplification factor C_d = 3

Nonbuilding structures, Section 15

Response Modification Coef. R = 3 — T-15.4-1 or T-15.4-2

Importance factor I = 1 — 15.4.1.1

For flexible nonbuilding, $C_s = S_{DS}I/R$ = 0.201

Min C_s = 0.03 — (15.4-1)

or $C_s = 0.8\ S_1I/R$ = 0.093 — (15.4-2)

V = 0.201 W

For rigid nonbuilding, $C_s = 0.3\ S_{DS}\ I$ — (15.4-5)

= 0.181 W

IBC2006 (1613), ASCE 7-05 CHAPTER 11, 12, 13 SEISMIC DESIGN CRITERIA

Soil Site Class E — Table 20-3-1, Default = D

Response Spectral Acc. (0.2 sec) S_s = 98.00%g = 0.980g — Figure 22-1 through 22-14

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Site Coefficient F_v = 2.600 — Table 11.4-2

Max Considered Earthquake Acc. S_{MS} = $F_a.S_s$ = 0.906 — (11.4-1)

Max Considered Earthquake Acc. S_{M1} = $F_v.S_1$ = 0.910 — (11.4-2)

@ 5% Damped Design S_{DS} = $2/3(S_{MS})$ = 0.604 — (11.4-3)

S_{D1} = $2/3(S_{M1})$ = 0.607 — (11.4-4)

Building Occupancy Categories: III, Public hazard — Table 1-1

Design Category Consideration: Flexible Diaphragm — with dist. between seismic resisting system >40ft

Seismic Design Category for 0.1sec D — Table 11.6-1

Seismic Design Category for 1.0sec D — Table 11.6-2

S1 < .75g NA — Section 11.6

Since Ta < .8Ts (see below), SDC = D — Control (exception of Section 11.6 does not apply)

Comply with Seismic Design Category D — IRC, Seismic Design Category = Do — T-R301.2.2.1.1

12.8 Equivalent lateral force procedure

B. BUILDING FRAME SYSTEMS — T-12.2-1

Seismic Force Resisting Systems: 4. Ordinary steel concentrically braced frames

C_t = 0.02 — x = 0.75 — T-12.8-2

Building ht. H_n = 10 ft — Limited Building Height (ft) = 35j

C_u = 1.400 — for S_{D1} of 0.607g — Table 12.8-1

Approx Fundamental period, T_a = $C_t(h_n)^x$ = 0.112 — 12.8-7 — T_L = 8 Sec

Calculated T shall not exceed ≤ Cu.Ta = 0.157 — Use T = 0.112 sec.

0.8Ts = $0.8(S_{D1}/S_{DS})$ = 0.804 — Control (exception of Section 11.6 does not apply)

Is structure Regular & ≤ 5 stories ? Yes — 12.8.1.3

Response Spectral Acc.(0.2 sec) S_s = 0.980g — *Max Ss ≤ 0.15g*

F_a = 0.92

@ 5% Damped Design S_{DS} = $\frac{2}{3}(F_a.S_s)$ = 0.604g — (11.4-3)

Response Modification Coef. R = 3.25 — Table-12.2-1

Over Strength Factor Ω_o = 2 — foot note g

Importance factor I = 1.25 — Table 11.5-1

Seismic Base Shear V = $C_s W$

$C_s = \frac{S_{DS}}{R/I}$ = 0.232 — (12.8-2)

or need not to exceed, $C_s = \frac{S_{D1}}{(R/I).T}$ = 2.075 — For T≤ T_L — (12.8-3)

or $C_s = \frac{S_{D1}T_L}{T^2(R/I)}$ N/A — For T > T_L — (12.8-4)

C_s shall not be less than = 0.01 — (12.8-5)

Min C_s = $0.5S_1I/R$ N/A — For S_1 ≥ 0.6g — (12.8-6)

Use C_s = 0.232

Design Base shear V = 0.232 W — Control

12.14 Simplified Seismic base shear — 13. Light-frame walls sheathed with wood structural panels rated for shear resistance or steel sheets — T-12.14-1

@ 5% Damped Design S_{DS} = 0.604 — SDC = D — Limitations: P

F = 1.1 — For two-story building — R = 6.5

$V = \frac{FS_{DS}(W)}{R}$ = 0.102 W

13.3 Seismic Demands on Nonstructural Components

$F_p = \frac{0.4a_pS_{DS}W_p(1+2z/h)}{(R_p/I_p)}$ — (13.3-1) — S_{DS} = 0.604

a_p = 2.5 — R_p = 6 — T-13.5-1 or 13.6-1

I_p = 1.0 — 13.1.3

z = 20 ft — h = 20 ft — F_p = 0.302 Wp

Max F_p = $1.6S_{DS}I_pW_p$ = 0.966Wp — (13.3-2)

Min F_p = $0.3S_{DS}I_pW_p$ = 0.181Wp — (13.3-3)

F_p = 0.302 Wp

12.11.1 Structural Walls and Their Anchorage

F_p = $0.40S_{DS}IW_w$ — 12.11.1

= 0.302(W)

12.11.2 Anchorage of Concrete or Masonry structural Walls (flexible diaphragm)

or F_p = $400S_{DS}I$ = 302 — shall be ≥ 280 #/ft

F_p = $0.8S_{DS}I(W_w)$ — (12.11.1)

= 0.604 Wp

Max Seismic Load E_M = $\Omega Q_E \pm 0.2S_{DS}D$ — (12.4.4), (12.4.5), (12.4.6), (12.4.7)

Where Ω_o = 2

$0.2S_{DS}D$ = 0.121(D)

Deflection Amplification factor C_d = 3.25

Nonbuilding structures, Section 15

Response Modification Coef. R = 3 — T-15.4-1 or T-15.4-2

Importance factor I = 1 — 15.4.1.1

For flexible nonbuilding, C_s = $S_{DS}I/R$ = 0.201

Min C_s = 0.03 — (15.4-1)

or C_s = $0.8\ S_1I/R$ = 0.093 — (15.4-2)

V = 0.201 W

For rigid nonbuilding, C_s = $0.3\ S_{DS}\ I$ — (15.4-5)

= 0.181 W

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By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject _____ Job No. _____

$\frac{LL}{k} = 110$

Pipe wt = 1.5 k/ft

Self wt = W8x28 x 24' = 672
+ W6x20 x 30' = 600

1.28 k/20'
= 70 #/ft ±

70 #/ft Frame
+ 30 #/ft Strut

= 100 #/ft SW

DL = 1.6 k/ft

Seismic = 1.6 k x 0.24 = 384 #/ft

Assume 60% Goes to top & 50%

Each Size

384 x 0.6 ~~0.5~~ = 120 #/ft

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By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject _____ Job No. _____

Low Rack Braces @ 20' MAX spacing

∴ Each Brace Vu Horiz = 24^k

Ping Studs Need Ω = 2.0 = 48^k ultimate

5" ϕ STD pipe

AT 20' = 55^k ∴ OK

For overturning
Assume

50^k ~~[illegible]~~ Each ~~Frame~~ Bay

~~[illegible]~~

$$\frac{50^k \times 11}{20} = 27^k \text{ uplift}$$

Need 35^k D/ uplift

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By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject _____ Job No. _____

$1.5^k \times 20' = 30^k$ IN Contents

$P_{fy} = 12 \times 4 \times 1.5 \times .15 = 10.8^k$ IN FTG

$\therefore$ OK

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Title Block Line 6

Title :
Dsgnr:
Project Desc.:

Project Notes :

Job #

Printed: 18 SEP 2009, 1:44PM

General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : low pipe bridge footing

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	4.0	ksi
Fy : Rebar Yield	=	60.0	ksi
Ec : Concrete Elastic Modulus	=	3,122.0	ksi
Concrete Density	=	145.0	pcf
Φ Values Flexure	=	0.90	
Shear	=	0.850	

Analysis Settings

Min Steel % Bending Reinf.	=	0.00140	
Min Allow % Temp Reinf.	=	0.00180	
Min. Overturning Safety Factor	=	1.50	:1
Min. Overturning Safety Factor	=	1.50	:1
AutoCalc Footing Weight as DL	:	Yes	
AutoCalc Pedestal Weight as DL	:	No	

Soil Design Values

Allowable Soil Bearing	=	2.50	ksf
Increase Bearing By Footing Weight	=	No	
Soil Passive Resistance (for Sliding)	=	150.0	pcf
Soil/Concrete Friction Coeff.	=	0.30	

Increases based on footing Depth

Reference Depth below Surface	=	3.0	ft
Allow. Pressure Increase per foot of depth	=		ksf
when base footing is below	=		ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=		ksf
when footing is wider than	=		ft

Dimensions

Width along X-X Axis	=	12.0	ft
Length along Z-Z Axi	=	4.0	ft
Footing Thicknes	=	18.0	in

Load location offset from footing center...

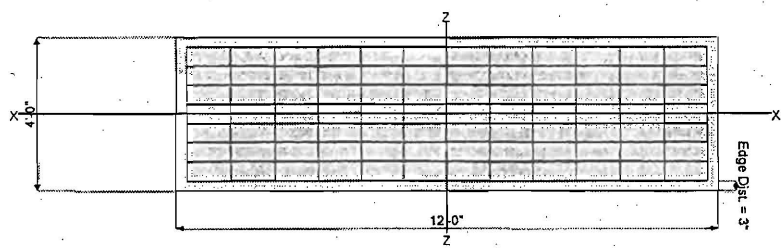
ex : Along X-X Axis	=	0	in
ez : Along Z-Z Axis	=	0	in

Pedestal dimensions...

px : Along X-X Axis	=		in
pz : Along Z-Z Axis	=		in
Height	=		in

Rebar Centerline to Edge of Concrete..

at Bottom of footing	=	3.0	in



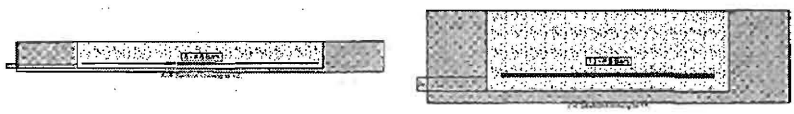
Reinforcing

Bars along X-X Axis

Number of Bars	=	8.0	
Reinforcing Bar Size	=	# 8	

Bars along Z-Z Axis

Number of Bars	=	13.0	
Reinforcing Bar Size	=	# 8	



Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Separation: Z-Z Axis

# Bars required within zone	50.0 %
# Bars required on each side of zone	50.0 %

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	32.0							k
OB : Overburden	=								ksf
M-xx	=								k-ft
M-zz	=						80.0		k-ft
V-x	=						9.20		k
V-z	=								k

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General Footing Design

File: C:\Documents and Settings\Tiengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002638 License Owner : winzler & kelly consulting engineers

Description : low pipe bridge footing

DESIGN SUMMARY

Design OK

	Min. Ratio	Item	Applied	Capacity	Governing Load Combination
PASS	0.6532	Soil Bearing	1.633 ksf	2.50 ksf	+1.084D+0.70E+H
PASS	n/a	Overturning - X-X	0.0 k-ft	0.0 k-ft	No Overturning
PASS	3.421	Overturning - Z-Z	67.0 k-ft	229.18 k-ft	0.9D+E/1.4
PASS	2.052	Sliding - X-X	6.571 k	13.484 k	0.9D+E/1.4
PASS	n/a	Sliding - Z-Z	0.0 k	0.0 k	No Sliding
PASS	n/a	Uplift	0.0 k	0.0 k	No Uplift
PASS	0.2890	Z Flexure (+X)	30.818 k-ft	106.65 k-ft	+1.20D+0.50L+0.20S+E
PASS	0.2089	Z Flexure (-X)	22.277 k-ft	106.65 k-ft	+1.40D
PASS	0.04285	X Flexure (+Z)	2.475 k-ft	57.769 k-ft	+1.40D
PASS	0.04285	X Flexure (-Z)	2.475 k-ft	57.769 k-ft	+1.40D
PASS	0.3070	1-way Shear (+X)	33.009 psi	107.52 psi	+1.40D
PASS	0.3070	1-way Shear (-X)	33.009 psi	107.52 psi	+1.40D
PASS	0.04776	1-way Shear (+Z)	5.135 psi	107.52 psi	+1.40D
PASS	0.04776	1-way Shear (-Z)	5.135 psi	107.52 psi	+1.40D
PASS	0.2982	2-way Punching	64.128 psi	215.03 psi	+1.40D

Detailed Results

Soil Bearing

Rotation Axis & Load Combination...	Gross Allowable	Xecc	Zecc	Actual Soil Bearing Stress +Z	+Z	-X	-X	Actual / Allowable Ratio
X-X, +D	2.50	n/a	0.0	0.8842	0.8842	n/a	n/a	0.354
X-X, +D+L+H	2.50	n/a	0.0	0.8842	0.8842	n/a	n/a	0.354
X-X, +D+Lr+H	2.50	n/a	0.0	0.8842	0.8842	n/a	n/a	0.354
X-X, +1.084D+0.70E+H	2.50	n/a	0.0	0.9584	0.9584	n/a	n/a	0.383
X-X, +1.063D+0.750Lr+0.750L+0.5250	2.50	n/a	0.0	0.9399	0.9399	n/a	n/a	0.376
X-X, +1.084D+0.750L+0.750S+0.5250E	2.50	n/a	0.0	0.9584	0.9584	n/a	n/a	0.383
X-X, +0.5160D+0.70E+H	2.50	n/a	0.0	0.4562	0.4562	n/a	n/a	0.183
Z-Z, +D	2.50	0.0	n/a	n/a	n/a	0.8842	0.8842	0.354
Z-Z, +D+L+H	2.50	0.0	n/a	n/a	n/a	0.8842	0.8842	0.354
Z-Z, +D+Lr+H	2.50	0.0	n/a	n/a	n/a	0.8842	0.8842	0.354
Z-Z, +1.084D+0.70E+H	2.50	17.127	n/a	n/a	n/a	0.2836	1.633	0.653
Z-Z, +1.063D+0.750Lr+0.750L+0.5250	2.50	13.099	n/a	n/a	n/a	0.4337	1.446	0.578
Z-Z, +1.084D+0.750L+0.750S+0.5250E	2.50	12.845	n/a	n/a	n/a	0.4523	1.465	0.586
Z-Z, +0.5160D+0.70E+H	2.50	35.980	n/a	n/a	n/a	0.0	1.205	0.482

Overturning Stability

Rotation Axis & Load Combination...	Overturning Moment	Resisting Moment	Stability Ratio	Status
X-X, D	None	0.0 k-ft	Infinity	OK
X-X, 0.9D+E/1.4	None	0.0 k-ft	Infinity	OK
Z-Z, D	None	0.0 k-ft	Infinity	OK
Z-Z, 0.9D+E/1.4	67.0 k-ft	229.18 k-ft	3.421	OK

Sliding Stability

Force Application Axis Load Combination...	Sliding Force	Resisting Force	Sliding SafetyRatio	Status
X-X, D	0.0 k	14.757 k	No Sliding	OK
X-X, 0.9D+E/1.4	6.571 k	13.484 k	2.052	OK
Z-Z, D	0.0 k	18.807 k	No Sliding	OK
Z-Z, 0.9D+E/1.4	0.0 k	17.534 k	No Sliding	OK

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
X-X, +1.40D	2.475 k-ft	+Z	Bottom	0.0489 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK
X-X, +1.40D	2.475 k-ft	-Z	Bottom	0.0489 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	2.122 k-ft	+Z	Bottom	0.0419 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK
X-X, +1.20D+0.50L+0.20S+E	2.122 k-ft	-Z	Bottom	0.0419 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK
X-X, +0.60D+E+1.60H	1.061 k-ft	+Z	Bottom	0.0209 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK
X-X, +0.60D+E+1.60H	1.061 k-ft	-Z	Bottom	0.0209 in2/ft	Calc'd Bending	0.8558 in2/ft	57.769 k-ft	OK

Title Block Line 1
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General Footing Design

File: C:\Documents and Settings\Tlengyel\My Documents\ENERCALC Data Files\pop-t4.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.221

Lic. # : KW-06002838 License Owner : winzler & kelly consulting engineers

Description : low pipe bridge footing

Footing Flexure

Footing Flexure Load Combination...	Mu	Which Side ?	Tension @ Bot. or Top ?	As Req'd	Gvrn. As	Actual As	Phi*Mn	Status
Z-Z. +1.40D	22.277 k-ft	-X	Bottom	0.4463 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK
Z-Z. +1.40D	22.277 k-ft	+X	Bottom	0.4463 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK
Z-Z. +1.20D+0.50L+0.20S+E	7.372 k-ft	-X	Bottom	0.1460 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK
Z-Z. +1.20D+0.50L+0.20S+E	30.818 k-ft	+X	Bottom	0.5692 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK
Z-Z. +0.60D+E+1.60H	0.03670 k-ft	-X	Bottom	0.0007 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK
Z-Z. +0.60D+E+1.60H	23.483 k-ft	+X	Bottom	0.4709 in2/ft	Calc'd Bending	1.5800 in2/ft	106.65 k-ft	OK

One Way Shear

Load Combination...	Vu @ -X	Vu @ +X	Vu @ -Z	Vu @ +Z	Vu:Max	Phi Vn	Phi*Vn / Vu	Status
+1.40D	33.009 psi	33.009 psi	5.135 psi	5.135 psi	33.009 psi	107.52 psi	0.3070	OK
+1.20D+0.50L+0.20S+E	28.293 psi	28.293 psi	4.401 psi	4.401 psi	28.293 psi	107.52 psi	0.2632	OK
+0.60D+E+1.60H	14.145 psi	14.145 psi	2.201 psi	2.201 psi	14.145 psi	107.52 psi	0.1316	OK

Punching Shear

Load Combination...	Vu	Phi*Vn	Vu / Phi*Vn	Status
+1.40D	64.128 psi	215.03 psi	0.2982	OK
+1.20D+0.50L+0.20S+E	54.967 psi	215.03 psi	0.2556	OK
+0.60D+E+1.60H	27.865 psi	215.03 psi	0.1296	OK

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SAP2000 Analysis Report

Prepared by

Winzler & Kelly

Model Name: Low Rack Model.SDB

18 September 2009

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1. Model geometry

This section provides model geometry information, including items such as joint coordinates, joint restraints, and element connectivity.

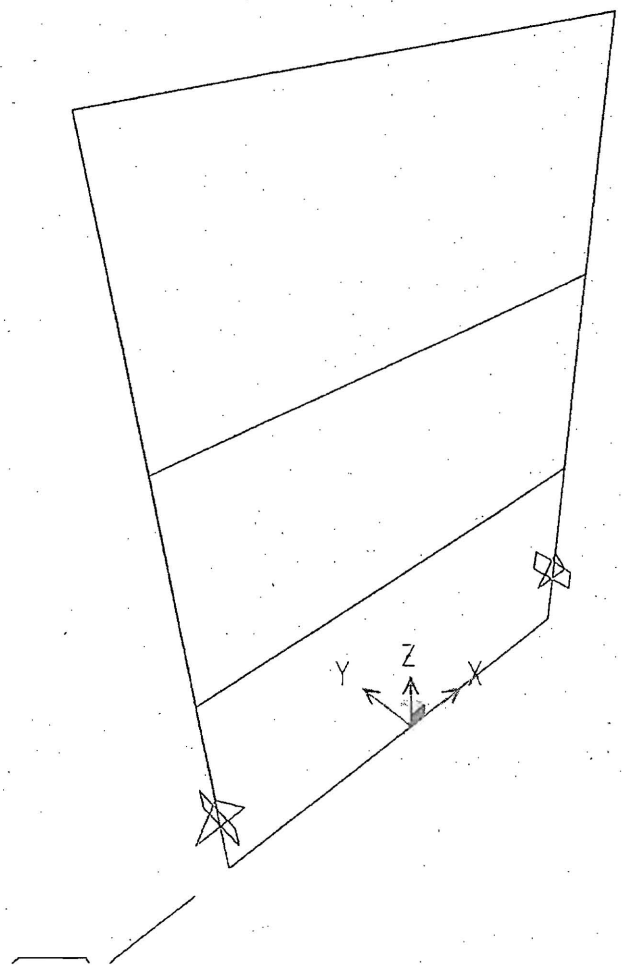


Figure 1: Finite element model

1.1. Joint coordinates

Table 1: Joint Coordinates, Part 1 of 2

Table 1: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR in	Y in	Z in	SpecialJt	GlobalX in
1	GLOBAL	Cartesian	-54.000	0.000	24.000	No	-54.000
2	GLOBAL	Cartesian	-54.000	0.000	52.000	No	-54.000
3	GLOBAL	Cartesian	-54.000	0.000	104.000	No	-54.000
4	GLOBAL	Cartesian	-54.000	0.000	156.000	No	-54.000

Table 1: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR in	Y in	Z in	SpecialJt	GlobalX in
5	GLOBAL	Cartesian	54.000	0.000	24.000	No	54.000
6	GLOBAL	Cartesian	54.000	0.000	52.000	No	54.000
7	GLOBAL	Cartesian	54.000	0.000	104.000	No	54.000
8	GLOBAL	Cartesian	54.000	0.000	156.000	No	54.000

Table 1: Joint Coordinates, Part 2 of 2

Table 1: Joint Coordinates, Part 2 of 2

Joint	GlobalY in	GlobalZ in	GUID
1	0.000	24.000	
2	0.000	52.000	
3	0.000	104.000	
4	0.000	156.000	
5	0.000	24.000	
6	0.000	52.000	
7	0.000	104.000	
8	0.000	156.000	

1.2. Joint restraints

Table 2: Joint Restraint Assignments

Table 2: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	No	Yes
5	Yes	Yes	Yes	Yes	No	Yes

1.3. Element connectivity

Table 3: Connectivity - Frame, Part 1 of 2

Table 3: Connectivity - Frame, Part 1 of 2

Frame	JointI	JointJ	IsCurved	Length in	CentroidX in	CentroidY in	CentroidZ in
1	1	2	No	28.000	-54.000	0.000	38.000
2	2	3	No	52.000	-54.000	0.000	78.000
3	3	4	No	52.000	-54.000	0.000	130.000
4	5	6	No	28.000	54.000	0.000	38.000
5	6	7	No	52.000	54.000	0.000	78.000
6	7	8	No	52.000	54.000	0.000	130.000
7	2	6	No	108.000	0.000	0.000	52.000
8	3	7	No	108.000	0.000	0.000	104.000
9	4	8	No	108.000	0.000	0.000	156.000

Table 3: Connectivity - Frame, Part 2 of 2

Table 3: Connectivity - Frame, Part 2 of 2

Frame	GUID
1	
2	
3	
4	
5	
6	
7	
8	
9	

Table 4: Frame Section Assignments

Table 4: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1	I/Wide Flange	N.A.	W8X28	W8X28	Default
2	I/Wide Flange	N.A.	W8X28	W8X28	Default
3	I/Wide Flange	N.A.	W8X28	W8X28	Default
4	I/Wide Flange	N.A.	W8X28	W8X28	Default
5	I/Wide Flange	N.A.	W8X28	W8X28	Default
6	I/Wide Flange	N.A.	W8X28	W8X28	Default
7	I/Wide Flange	N.A.	W6X12	W6X12	Default
8	I/Wide Flange	N.A.	W6X12	W6X12	Default
9	I/Wide Flange	N.A.	W6X12	W6X12	Default

2. Material properties

This section provides material property information for materials used in the model.

Table 5: Material Properties 02 - Basic Mechanical Properties

Table 5: Material Properties 02 - Basic Mechanical Properties

Material	UnitWeight Kip/in3	UnitMass Kip-s2/in4	E1 Kip/in2	G12 Kip/in2	U12	A1 1/F
4000Psi	8.6806E-05	2.2483E-07	3604.997	1502.082	0.200000	5.5000E-06
A992Fy50	2.8356E-04	7.3446E-07	29000.000	11153.846	0.300000	6.5000E-06

Table 6: Material Properties 03a - Steel Data, Part 1 of 2

Table 6: Material Properties 03a - Steel Data, Part 1 of 2

Material	Fy Kip/in2	Fu Kip/in2	EffFy Kip/in2	EffFu Kip/in2	SSCurveOpt	SSHysType	SHard	SMax
A992Fy50	50.000	65.000	55.000	71.500	Simple	Kinematic	0.015000	0.110000

Table 6: Material Properties 03a - Steel Data, Part 2 of 2

Table 6: Material Properties 03a - Steel Data, Part 2 of 2

Material	SRup	FinalSlope
A992Fy50	0.170000	-0.100000

Table 7: Material Properties 03b - Concrete Data, Part 1 of 2

Table 7: Material Properties 03b - Concrete Data, Part 1 of 2

Material	Fc Kip/in2	LtWtConc	SSCurveOpt	SSHysType	SFc	SCap	FinalSlope	FAngle Degrees
4000Psi	4.000	No	Mander	Takeda	0.002219	0.005000	-0.100000	0.000

Table 7: Material Properties 03b - Concrete Data, Part 2 of 2

Table 7: Material Properties 03b - Concrete Data, Part 2 of 2

Material	DAngle Degrees
4000Psi	0.000

3. Section properties

This section provides section property information for objects used in the model.

3.1. Frames

Table 8: Frame Section Properties 01 - General, Part 1 of 7

Table 8: Frame Section Properties 01 - General, Part 1 of 7

SectionName	Material	Shape	t3 in	t2 in	tf in	tw in
FSEC1	A992Fy50	I/Wide Flange	12.0000	5.0000	0.3800	0.2500
W6X12	A992Fy50	I/Wide Flange	6.0300	4.0000	0.2800	0.2300
W8X21	A992Fy50	I/Wide Flange	8.2800	5.2700	0.4000	0.2500
W8X28	A992Fy50	I/Wide Flange	8.0600	6.5400	0.4650	0.2850
W8X31	A992Fy50	I/Wide Flange	8.0000	8.0000	0.4350	0.2850

Table 8: Frame Section Properties 01 - General, Part 2 of 7

Table 8: Frame Section Properties 01 - General, Part 2 of 7

SectionName	t2b in	tfb in	Area in2	TorsConst in4	I33 in4	I22 in4	AS2 in2
FSEC1	5.0000	0.3800	6.61	0.23	157.90	7.93	3.00
W6X12	4.0000	0.2800	3.55	9.030E-02	22.10	2.99	1.39
W8X21	5.2700	0.4000	6.16	0.28	75.30	9.77	2.07
W8X28	6.5400	0.4650	8.24	0.54	98.00	21.70	2.30

Table 8: Frame Section Properties 01 - General, Part 2 of 7

SectionName	t2b	tfb	Area	TorsConst	I33	I22	AS2
	in	in	in2	in4	in4	in4	in2
W8X31	8.0000	0.4350	9.12	0.54	110.00	37.10	2.28

Table 8: Frame Section Properties 01 - General, Part 3 of 7

Table 8: Frame Section Properties 01 - General, Part 3 of 7

SectionName	AS3	S33	S22	Z33	Z22	R33	R22
	in2	in3	in3	in3	in3	in	in
FSEC1	3.17	26.32	3.17	29.97	4.93	4.8876	1.0954
W6X12	1.87	7.33	1.50	8.30	2.32	2.4951	0.9177
W8X21	3.51	18.19	3.71	20.40	5.69	3.4963	1.2594
W8X28	5.07	24.32	6.64	27.20	10.10	3.4487	1.6228
W8X31	5.80	27.50	9.27	30.40	14.10	3.4730	2.0169

Table 8: Frame Section Properties 01 - General, Part 4 of 7

Table 8: Frame Section Properties 01 - General, Part 4 of 7

SectionName	ConcCol	ConcBeam	Color	TotalWt	TotalMass	FromFile	AMod
				Kip	Kip-s2/in		
FSEC1	No	No	Green	0.000	0.0000	No	1.000000
W6X12	No	No	Yellow	0.326	8.448E-04	Yes	1.000000
W8X21	No	No	Yellow	0.000	0.0000	Yes	1.000000
W8X28	No	No	Gray8Dark	0.617	0.0016	Yes	1.000000
W8X31	No	No	Yellow	0.000	0.0000	Yes	1.000000

Table 8: Frame Section Properties 01 - General, Part 5 of 7

Table 8: Frame Section Properties 01 - General, Part 5 of 7

SectionName	A2Mod	A3Mod	JMod	I2Mod	I3Mod	MMod	WMod
FSEC1	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W6X12	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W8X21	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W8X28	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W8X31	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

Table 8: Frame Section Properties 01 - General, Part 6 of 7

Table 8: Frame Section Properties 01 - General, Part 6 of 7

SectionName	SectInFile	FileName	GUID
FSEC1			
W6X12	W6X12	c:\program files\computers and structures\sap2000 14 server\aisc13.pro	
W8X21	W8X21	c:\program files\computers and structures\sap2000 14 server\aisc13.pro	
W8X28	W8X28	c:\program files\computers and structures\sap2000 14 server\aisc13.pro	

Table 8: Frame Section Properties 01 - General, Part 6 of 7

SectionName	SectInFile	FileName	GUID
W8X31	W8X31	c:\program files\computers and structures\sap2000 14 server\aisc13.pro	

Table 8: Frame Section Properties 01 - General, Part 7 of 7

Table 8: Frame Section Properties 01 - General, Part 7 of 7

SectionName	Notes
FSEC1	Added 7/20/2009 1:44:29 PM
W6X12	Imported 7/20/2009 2:31:01 PM from AISC13.pro
W8X21	Imported 7/20/2009 1:56:12 PM from AISC13.pro
W8X28	Imported 7/20/2009 1:56:23 PM from AISC13.pro
W8X31	Imported 7/20/2009 1:49:08 PM from AISC13.pro

4. Load patterns

This section provides loading information as applied to the model.

4.1. Definitions

Table 9: Load Pattern Definitions

Table 9: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad	GUID	Notes
DEAD	DEAD	1.000000			
Live	LIVE	0.000000			
quake	QUAKE	0.000000	None		

5. Load cases

This section provides load case information.

5.1. Definitions

Table 10: Load Case Definitions, Part 1 of 2

Table 10: Load Case Definitions, Part 1 of 2

Case	Type	InitialCond	ModalCase	BaseCase	DesTypeOpt	DesignType	AutoType
DEAD	LinStatic	Zero			Prog Det	DEAD	None
MODAL	LinModal	Zero			Prog Det	OTHER	None
Live	LinStatic	Zero			Prog Det	LIVE	None
quake	LinStatic	Zero			Prog Det	QUAKE	None

Table 10: Load Case Definitions, Part 2 of 2

Table 10: Load Case Definitions, Part 2 of 2

Case	RunCase	CaseStatus	GUID	Notes
DEAD	Yes	Finished		
MODAL	No	Not Run		
Live	Yes	Finished		
quake	Yes	Finished		

5.2. Static case load assignments

Table 11: Case - Static 1 - Load Assignments

Table 11: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
DEAD	Load pattern	DEAD	1.000000
Live	Load pattern	Live	1.000000
quake	Load pattern	quake	1.000000

5.3. Response spectrum case load assignments

Table 12: Function - Response Spectrum - User

Table 12: Function - Response Spectrum - User

Name	Period Sec	Accel	FuncDamp
UNIFRS	0.000000	1.000000	0.050000
UNIFRS	1.000000	1.000000	

6. Load combinations

This section provides load combination information.

Table 13: Combination Definitions, Part 1 of 3

Table 13: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
UDSTL1	Linear Add	No	Linear Static	DEAD	1.400000	Yes
UDSTL2	Linear Add	No	Linear Static	DEAD	1.200000	Yes
UDSTL3	Linear Add	No	Linear Static	DEAD	1.000000	Yes
UDSTL4	Linear Add	No	Linear Static	DEAD	1.000000	Yes
UDSTL5	Linear Add	No	Linear Static	DEAD	1.400000	Yes
UDSTL6	Linear Add	No	Linear Static	DEAD	1.200000	Yes
UDSTL6			Linear Static	Live	1.600000	
UDSTL7	Linear Add	No	Linear Static	DEAD	1.200000	Yes
UDSTL7			Linear Static	Live	0.500000	
UDSTL7			Linear Static	quake	1.000000	
UDSTL8	Linear Add	No	Linear Static	DEAD	1.200000	Yes
UDSTL8			Linear Static	Live	0.500000	
UDSTL8			Linear Static	quake	-1.000000	
UDSTL9	Linear Add	No	Linear Static	DEAD	0.900000	Yes
UDSTL9			Linear Static	quake	1.000000	
UDSTL10	Linear Add	No	Linear Static	DEAD	0.900000	Yes
UDSTL10			Linear Static	quake	-1.000000	
UDSTL11	Linear Add	No	Linear Static	DEAD	1.000000	Yes
UDSTL12	Linear Add	No	Linear Static	DEAD	1.000000	Yes
UDSTL12			Linear Static	Live	1.000000	
DSTL1	Linear Add	Yes	Linear Static	DEAD	1.400000	Yes
DSTL2	Linear Add	Yes	Linear Static	DEAD	1.200000	Yes
DSTL2			Linear Static	Live	1.600000	
DSTL3	Linear Add	Yes	Linear Static	DEAD	1.200000	Yes
DSTL3			Linear Static	Live	0.500000	
DSTL3			Linear Static	quake	1.000000	
DSTL4	Linear Add	Yes	Linear Static	DEAD	1.200000	Yes
DSTL4			Linear Static	Live	0.500000	
DSTL4			Linear Static	quake	-1.000000	
DSTL5	Linear Add	Yes	Linear Static	DEAD	0.900000	Yes
DSTL5			Linear Static	quake	1.000000	
DSTL6	Linear Add	Yes	Linear Static	DEAD	0.900000	Yes
DSTL6			Linear Static	quake	-1.000000	
DSTL7	Linear Add	Yes	Linear Static	DEAD	1.000000	Yes
DSTL8	Linear Add	Yes	Linear Static	DEAD	1.000000	Yes
DSTL8			Linear Static	Live	1.000000	

Table 13: Combination Definitions, Part 2 of 3

Table 13: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign	GUID
UDSTL1	DEAD	No	No	No	
UDSTL2	DEAD	No	No	No	
UDSTL3	DEAD	No	No	No	
UDSTL4	DEAD	No	No	No	
UDSTL5	DEAD	No	No	No	
UDSTL6	DEAD	No	No	No	
UDSTL6	Live				
UDSTL7	DEAD	No	No	No	
UDSTL7	Live				
UDSTL7	quake				

Table 13: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign	GUID
UDSTL8	DEAD	No	No	No	
UDSTL8	Live				
UDSTL8	quake				
UDSTL9	DEAD	No	No	No	
UDSTL9	quake				
UDSTL10	DEAD	No	No	No	
UDSTL10	quake				
UDSTL11	DEAD	No	No	No	
UDSTL12	DEAD	No	No	No	
UDSTL12	Live				
DSTL1	DEAD	No	No	No	
DSTL2	DEAD	No	No	No	
DSTL2	Live				
DSTL3	DEAD	No	No	No	
DSTL3	Live				
DSTL3	quake				
DSTL4	DEAD	No	No	No	
DSTL4	Live				
DSTL4	quake				
DSTL5	DEAD	No	No	No	
DSTL5	quake				
DSTL6	DEAD	No	No	No	
DSTL6	quake				
DSTL7	DEAD	No	No	No	
DSTL8	DEAD	No	No	No	
DSTL8	Live				

Table 13: Combination Definitions, Part 3 of 3

Table 13: Combination Definitions, Part 3 of 3

ComboName	CaseName	Notes
UDSTL1	DEAD	Dead Only; Strength
UDSTL2	DEAD	Dead + Live; Strength
UDSTL3	DEAD	Dead Only; Deflection
UDSTL4	DEAD	Dead + Live; Deflection
UDSTL5	DEAD	Dead Only; Strength
UDSTL6	DEAD	Dead + Live; Strength
UDSTL6	Live	
UDSTL7	DEAD	Dead + Live + Static Earthquake; Strength
UDSTL7	Live	
UDSTL7	quake	
UDSTL8	DEAD	Dead + Live - Static Earthquake; Strength
UDSTL8	Live	
UDSTL8	quake	
UDSTL9	DEAD	Dead (min) + Static Earthquake; Strength
UDSTL9	quake	
UDSTL10	DEAD	Dead (min) - Static Earthquake; Strength
UDSTL10	quake	
UDSTL11	DEAD	Dead Only; Deflection

Table 13: Combination Definitions, Part 3 of 3

ComboName	CaseName	Notes
UDSTL12	DEAD	Dead + Live; Deflection
UDSTL12	Live	
DSTL1	DEAD	Dead Only; Strength
DSTL2	DEAD	Dead + Live; Strength
DSTL2	Live	
DSTL3	DEAD	Dead + Live + Static Earthquake; Strength
DSTL3	Live	
DSTL3	quake	
DSTL4	DEAD	Dead + Live - Static Earthquake; Strength
DSTL4	Live	
DSTL4	quake	
DSTL5	DEAD	Dead (min) + Static Earthquake; Strength
DSTL5	quake	
DSTL6	DEAD	Dead (min) - Static Earthquake; Strength
DSTL6	quake	
DSTL7	DEAD	Dead Only; Deflection
DSTL8	DEAD	Dead + Live; Deflection
DSTL8	Live	

7. Structure results

This section provides structure results, including items such as structural periods and base reactions.

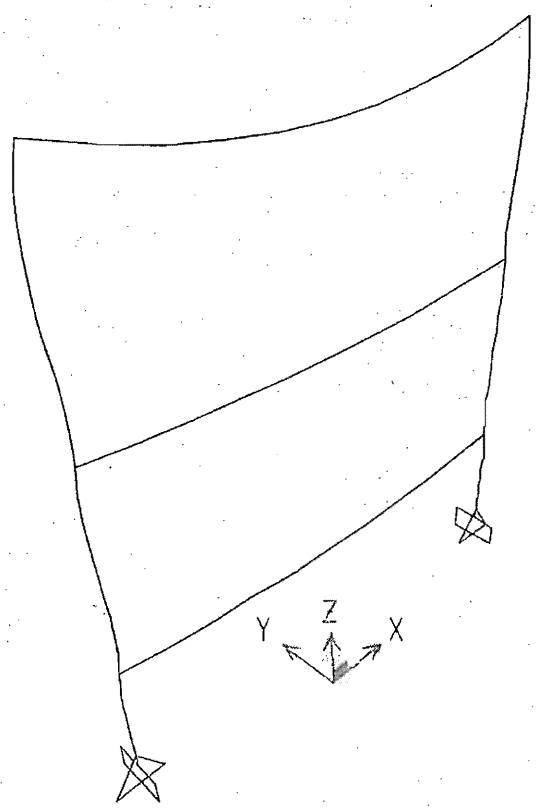


Figure 2: Deformed shape

7.1. Mass summary

Table 14: Assembled Joint Masses

Table 14: Assembled Joint Masses

Joint	U1 Kip-s2/in	U2 Kip-s2/in	U3 Kip-s2/in	R1 Kip-in-s2	R2 Kip-in-s2	R3 Kip-in-s2
1	8.473E-05	8.473E-05	8.473E-05	0.000	0.000	0.000
2	3.829E-04	3.829E-04	3.829E-04	0.000	0.000	0.000
3	4.555E-04	4.555E-04	4.555E-04	0.000	0.000	0.000
4	2.981E-04	2.981E-04	2.981E-04	0.000	0.000	0.000
5	8.473E-05	8.473E-05	8.473E-05	0.000	0.000	0.000
6	3.829E-04	3.829E-04	3.829E-04	0.000	0.000	0.000
7	4.555E-04	4.555E-04	4.555E-04	0.000	0.000	0.000
8	2.981E-04	2.981E-04	2.981E-04	0.000	0.000	0.000

7.2. Base reactions

Table 15: Base Reactions, Part 1 of 3

Table 15: Base Reactions, Part 1 of 3

OutputCase	CaseType	GlobalFX Kip	GlobalFY Kip	GlobalFZ Kip	GlobalMX Kip-in	GlobalMY Kip-in	GlobalMZ Kip-in	GlobalX in
DEAD	LinStatic	-3.469E-18	0.000	0.943	0.000	0.000	0.000	0.000
Live	LinStatic	-4.441E-16	0.000	32.400	0.000	2.274E-13	0.000	0.000
quake	LinStatic	-9.180	0.000	0.000	0.000	-954.720	0.000	0.000

Table 15: Base Reactions, Part 2 of 3

Table 15: Base Reactions, Part 2 of 3

OutputCase	GlobalY in	GlobalZ in	XCentroidFX in	YCentroidFX in	ZCentroidFX in	XCentroidFY in	YCentroidFY in	ZCentroidFY in
DEAD	0.000	0.000	5.245E+17	0.000	32.000	0.000	0.000	0.000
Live	0.000	0.000	4.071E+17	0.000	32.000	0.000	0.000	0.000
quake	0.000	0.000	4.025E-14	0.000	24.000	0.000	0.000	0.000

Table 15: Base Reactions, Part 3 of 3

Table 15: Base Reactions, Part 3 of 3

OutputCase	XCentroidFZ in	YCentroidFZ in	ZCentroidFZ in
DEAD	0.000	0.000	24.000
Live	-7.018E-15	0.000	24.000
quake	734.400	0.000	0.000

8. Joint results

This section provides joint results, including items such as displacements and reactions.

Table 16: Joint Displacements

Table 16: Joint Displacements

Joint	OutputCase	CaseType	U1 in	U2 in	U3 in	R1 Radians	R2 Radians	R3 Radians
1	DEAD	LinStatic	0.000000	0.000000	0.000000	0.000000	-1.330E-07	0.000000
1	Live	LinStatic	0.000000	0.000000	0.000000	0.000000	-0.000013	0.000000
1	quake	LinStatic	0.000000	0.000000	0.000000	0.000000	0.005196	0.000000
2	DEAD	LinStatic	-4.478E-07	0.000000	-0.000051	0.000000	2.191E-06	0.000000
2	Live	LinStatic	-0.000044	0.000000	-0.001898	0.000000	0.000218	0.000000
2	quake	LinStatic	0.144583	0.000000	0.000797	0.000000	0.004562	0.000000
3	DEAD	LinStatic	-5.148E-06	0.000000	-0.000115	0.000000	1.817E-06	0.000000
3	Live	LinStatic	-0.000511	0.000000	-0.004248	0.000000	0.000181	0.000000
3	quake	LinStatic	0.375550	0.000000	0.001651	0.000000	0.003597	0.000000
4	DEAD	LinStatic	0.000014	0.000000	-0.000140	0.000000	5.447E-06	0.000000
4	Live	LinStatic	0.001434	0.000000	-0.005424	0.000000	0.000541	0.000000
4	quake	LinStatic	0.548055	0.000000	0.002014	0.000000	0.002676	0.000000

Table 16: Joint Displacements

Joint	OutputCase	CaseType	U1 in	U2 in	U3 in	R1 Radians	R2 Radians	R3 Radians
5	DEAD	LinStatic	0.000000	0.000000	0.000000	0.000000	1.330E-07	0.000000
5	Live	LinStatic	0.000000	0.000000	0.000000	0.000000	0.000013	0.000000
5	quake	LinStatic	0.000000	0.000000	0.000000	0.000000	0.005196	0.000000
6	DEAD	LinStatic	4.478E-07	0.000000	-0.000051	0.000000	-2.191E-06	0.000000
6	Live	LinStatic	0.000044	0.000000	-0.001898	0.000000	-0.000218	0.000000
6	quake	LinStatic	0.144583	0.000000	-0.000797	0.000000	0.004562	0.000000
7	DEAD	LinStatic	5.148E-06	0.000000	-0.000115	0.000000	-1.817E-06	0.000000
7	Live	LinStatic	0.000511	0.000000	-0.004248	0.000000	-0.000181	0.000000
7	quake	LinStatic	0.375550	0.000000	-0.001651	0.000000	0.003597	0.000000
8	DEAD	LinStatic	-0.000014	0.000000	-0.000140	0.000000	-5.447E-06	0.000000
8	Live	LinStatic	-0.001434	0.000000	-0.005424	0.000000	-0.000541	0.000000
8	quake	LinStatic	0.548055	0.000000	-0.002014	0.000000	0.002676	0.000000

Table 17: Joint Reactions

Table 17: Joint Reactions

Joint	OutputCase	CaseType	F1 Kip	F2 Kip	F3 Kip	M1 Kip-in	M2 Kip-in	M3 Kip-in
1	DEAD	LinStatic	0.017	0.000	0.472	0.000	0.000	0.000
1	Live	LinStatic	1.674	0.000	16.200	0.000	0.000	0.000
1	quake	LinStatic	-4.590	0.000	-6.800	0.000	0.000	0.000
5	DEAD	LinStatic	-0.017	0.000	0.472	0.000	0.000	0.000
5	Live	LinStatic	-1.674	0.000	16.200	0.000	0.000	0.000
5	quake	LinStatic	-4.590	0.000	6.800	0.000	0.000	0.000

9. Frame results

This section provides frame force results.

Table 18: Element Forces - Frames, Part 1 of 2

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station in	OutputCase	CaseType	P Kip	V2 Kip	V3 Kip	T Kip-in	M2 Kip-in
1	0.000	DEAD	LinStatic	-0.472	-0.017	0.000	0.000	0.000
1	14.000	DEAD	LinStatic	-0.439	-0.017	0.000	0.000	0.000
1	28.000	DEAD	LinStatic	-0.406	-0.017	0.000	0.000	0.000
1	0.000	Live	LinStatic	-16.200	-1.674	0.000	0.000	0.000
1	14.000	Live	LinStatic	-16.200	-1.674	0.000	0.000	0.000
1	28.000	Live	LinStatic	-16.200	-1.674	0.000	0.000	0.000
1	0.000	quake	LinStatic	6.800	4.590	0.000	0.000	0.000
1	14.000	quake	LinStatic	6.800	4.590	0.000	0.000	0.000
1	28.000	quake	LinStatic	6.800	4.590	0.000	0.000	0.000
2	0.000	DEAD	LinStatic	-0.352	-0.018	0.000	0.000	0.000
2	26.000	DEAD	LinStatic	-0.291	-0.018	0.000	0.000	0.000
2	52.000	DEAD	LinStatic	-0.230	-0.018	0.000	0.000	0.000
2	0.000	Live	LinStatic	-10.800	-1.759	0.000	0.000	0.000
2	26.000	Live	LinStatic	-10.800	-1.759	0.000	0.000	0.000
2	52.000	Live	LinStatic	-10.800	-1.759	0.000	0.000	0.000
2	0.000	quake	LinStatic	3.924	3.060	0.000	0.000	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station in	OutputCase	CaseType	P Kip	V2 Kip	V3 Kip	T Kip-in	M2 Kip-in
2	26.000	quake	LinStatic	3.924	3.060	0.000	0.000	0.000
2	52.000	quake	LinStatic	3.924	3.060	0.000	0.000	0.000
3	0.000	DEAD	LinStatic	-0.176	-0.028	0.000	0.000	0.000
3	26.000	DEAD	LinStatic	-0.115	-0.028	0.000	0.000	0.000
3	52.000	DEAD	LinStatic	-0.054	-0.028	0.000	0.000	0.000
3	0.000	Live	LinStatic	-5.400	-2.733	0.000	0.000	0.000
3	26.000	Live	LinStatic	-5.400	-2.733	0.000	0.000	0.000
3	52.000	Live	LinStatic	-5.400	-2.733	0.000	0.000	0.000
3	0.000	quake	LinStatic	1.669	1.530	0.000	0.000	0.000
3	26.000	quake	LinStatic	1.669	1.530	0.000	0.000	0.000
3	52.000	quake	LinStatic	1.669	1.530	0.000	0.000	0.000
4	0.000	DEAD	LinStatic	-0.472	0.017	0.000	0.000	0.000
4	14.000	DEAD	LinStatic	-0.439	0.017	0.000	0.000	0.000
4	28.000	DEAD	LinStatic	-0.406	0.017	0.000	0.000	0.000
4	0.000	Live	LinStatic	-16.200	1.674	0.000	0.000	0.000
4	14.000	Live	LinStatic	-16.200	1.674	0.000	0.000	0.000
4	28.000	Live	LinStatic	-16.200	1.674	0.000	0.000	0.000
4	0.000	quake	LinStatic	-6.800	4.590	0.000	0.000	0.000
4	14.000	quake	LinStatic	-6.800	4.590	0.000	0.000	0.000
4	28.000	quake	LinStatic	-6.800	4.590	0.000	0.000	0.000
5	0.000	DEAD	LinStatic	-0.352	0.018	0.000	0.000	0.000
5	26.000	DEAD	LinStatic	-0.291	0.018	0.000	0.000	0.000
5	52.000	DEAD	LinStatic	-0.230	0.018	0.000	0.000	0.000
5	0.000	Live	LinStatic	-10.800	1.759	0.000	0.000	0.000
5	26.000	Live	LinStatic	-10.800	1.759	0.000	0.000	0.000
5	52.000	Live	LinStatic	-10.800	1.759	0.000	0.000	0.000
5	0.000	quake	LinStatic	-3.924	3.060	0.000	0.000	0.000
5	26.000	quake	LinStatic	-3.924	3.060	0.000	0.000	0.000
5	52.000	quake	LinStatic	-3.924	3.060	0.000	0.000	0.000
6	0.000	DEAD	LinStatic	-0.176	0.028	0.000	0.000	0.000
6	26.000	DEAD	LinStatic	-0.115	0.028	0.000	0.000	0.000
6	52.000	DEAD	LinStatic	-0.054	0.028	0.000	0.000	0.000
6	0.000	Live	LinStatic	-5.400	2.733	0.000	0.000	0.000
6	26.000	Live	LinStatic	-5.400	2.733	0.000	0.000	0.000
6	52.000	Live	LinStatic	-5.400	2.733	0.000	0.000	0.000
6	0.000	quake	LinStatic	-1.669	1.530	0.000	0.000	0.000
6	26.000	quake	LinStatic	-1.669	1.530	0.000	0.000	0.000
6	52.000	quake	LinStatic	-1.669	1.530	0.000	0.000	0.000
7	0.000	DEAD	LinStatic	8.537E-04	-0.054	0.000	0.000	0.000
7	21.600	DEAD	LinStatic	8.537E-04	-0.033	0.000	0.000	0.000
7	43.200	DEAD	LinStatic	8.537E-04	-0.011	0.000	0.000	0.000
7	64.800	DEAD	LinStatic	8.537E-04	0.011	0.000	0.000	0.000
7	86.400	DEAD	LinStatic	8.537E-04	0.033	0.000	0.000	0.000
7	108.000	DEAD	LinStatic	8.537E-04	0.054	0.000	0.000	0.000
7	0.000	Live	LinStatic	0.085	-5.400	0.000	0.000	0.000
7	21.600	Live	LinStatic	0.085	-3.240	0.000	0.000	0.000
7	43.200	Live	LinStatic	0.085	-1.080	0.000	0.000	0.000
7	64.800	Live	LinStatic	0.085	1.080	0.000	0.000	0.000
7	86.400	Live	LinStatic	0.085	3.240	0.000	0.000	0.000
7	108.000	Live	LinStatic	0.085	5.400	0.000	0.000	0.000
7	0.000	quake	LinStatic	1.530	2.876	0.000	0.000	0.000
7	21.600	quake	LinStatic	0.918	2.876	0.000	0.000	0.000
7	43.200	quake	LinStatic	0.306	2.876	0.000	0.000	0.000
7	64.800	quake	LinStatic	-0.306	2.876	0.000	0.000	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station in	OutputCase	CaseType	P Kip	V2 Kip	V3 Kip	T Kip-in	M2 Kip-in
7	86.400	quake	LinStatic	-0.918	2.876	0.000	0.000	0.000
7	108.000	quake	LinStatic	-1.530	2.876	0.000	0.000	0.000
8	0.000	DEAD	LinStatic	9.814E-03	-0.054	0.000	0.000	0.000
8	21.600	DEAD	LinStatic	9.814E-03	-0.033	0.000	0.000	0.000
8	43.200	DEAD	LinStatic	9.814E-03	-0.011	0.000	0.000	0.000
8	64.800	DEAD	LinStatic	9.814E-03	0.011	0.000	0.000	0.000
8	86.400	DEAD	LinStatic	9.814E-03	0.033	0.000	0.000	0.000
8	108.000	DEAD	LinStatic	9.814E-03	0.054	0.000	0.000	0.000
8	0.000	Live	LinStatic	0.975	-5.400	0.000	0.000	0.000
8	21.600	Live	LinStatic	0.975	-3.240	0.000	0.000	0.000
8	43.200	Live	LinStatic	0.975	-1.080	0.000	0.000	0.000
8	64.800	Live	LinStatic	0.975	1.080	0.000	0.000	0.000
8	86.400	Live	LinStatic	0.975	3.240	0.000	0.000	0.000
8	108.000	Live	LinStatic	0.975	5.400	0.000	0.000	0.000
8	0.000	quake	LinStatic	1.530	2.255	0.000	0.000	0.000
8	21.600	quake	LinStatic	0.918	2.255	0.000	0.000	0.000
8	43.200	quake	LinStatic	0.306	2.255	0.000	0.000	0.000
8	64.800	quake	LinStatic	-0.306	2.255	0.000	0.000	0.000
8	86.400	quake	LinStatic	-0.918	2.255	0.000	0.000	0.000
8	108.000	quake	LinStatic	-1.530	2.255	0.000	0.000	0.000
9	0.000	DEAD	LinStatic	-0.028	-0.054	0.000	0.000	0.000
9	21.600	DEAD	LinStatic	-0.028	-0.033	0.000	0.000	0.000
9	43.200	DEAD	LinStatic	-0.028	-0.011	0.000	0.000	0.000
9	64.800	DEAD	LinStatic	-0.028	0.011	0.000	0.000	0.000
9	86.400	DEAD	LinStatic	-0.028	0.033	0.000	0.000	0.000
9	108.000	DEAD	LinStatic	-0.028	0.054	0.000	0.000	0.000
9	0.000	Live	LinStatic	-2.733	-5.400	0.000	0.000	0.000
9	21.600	Live	LinStatic	-2.733	-3.240	0.000	0.000	0.000
9	43.200	Live	LinStatic	-2.733	-1.080	0.000	0.000	0.000
9	64.800	Live	LinStatic	-2.733	1.080	0.000	0.000	0.000
9	86.400	Live	LinStatic	-2.733	3.240	0.000	0.000	0.000
9	108.000	Live	LinStatic	-2.733	5.400	0.000	0.000	0.000
9	0.000	quake	LinStatic	1.530	1.669	0.000	0.000	0.000
9	21.600	quake	LinStatic	0.918	1.669	0.000	0.000	0.000
9	43.200	quake	LinStatic	0.306	1.669	0.000	0.000	0.000
9	64.800	quake	LinStatic	-0.306	1.669	0.000	0.000	0.000
9	86.400	quake	LinStatic	-0.918	1.669	0.000	0.000	0.000
9	108.000	quake	LinStatic	-1.530	1.669	0.000	0.000	0.000

Table 18: Element Forces - Frames, Part 2 of 2

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station in	OutputCase	M3 Kip-in	FrameElem	ElemStation in
1	0.000	DEAD	3.469E-18	1-1	0.000
1	14.000	DEAD	0.236	1-1	14.000
1	28.000	DEAD	0.472	1-1	28.000
1	0.000	Live	4.441E-16	1-1	0.000
1	14.000	Live	23.433	1-1	14.000
1	28.000	Live	46.865	1-1	28.000
1	0.000	quake	0.000	1-1	0.000
1	14.000	quake	-64.260	1-1	14.000
1	28.000	quake	-128.520	1-1	28.000

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	M3	FrameElem	ElemStation
	in		Kip-in		in
2	0.000	DEAD	-0.481	2-1	0.000
2	26.000	DEAD	-0.020	2-1	26.000
2	52.000	DEAD	0.440	2-1	52.000
2	0.000	Live	-47.751	2-1	0.000
2	26.000	Live	-2.029	2-1	26.000
2	52.000	Live	43.694	2-1	52.000
2	0.000	quake	26.784	2-1	0.000
2	26.000	quake	-52.776	2-1	26.000
2	52.000	quake	-132.336	2-1	52.000
3	0.000	DEAD	-0.517	3-1	0.000
3	26.000	DEAD	0.198	3-1	26.000
3	52.000	DEAD	0.914	3-1	52.000
3	0.000	Live	-51.363	3-1	0.000
3	26.000	Live	19.707	3-1	26.000
3	52.000	Live	90.778	3-1	52.000
3	0.000	quake	-10.549	3-1	0.000
3	26.000	quake	-50.329	3-1	26.000
3	52.000	quake	-90.109	3-1	52.000
4	0.000	DEAD	-3.469E-18	4-1	0.000
4	14.000	DEAD	-0.236	4-1	14.000
4	28.000	DEAD	-0.472	4-1	28.000
4	0.000	Live	0.000	4-1	0.000
4	14.000	Live	-23.433	4-1	14.000
4	28.000	Live	-46.865	4-1	28.000
4	0.000	quake	0.000	4-1	0.000
4	14.000	quake	-64.260	4-1	14.000
4	28.000	quake	-128.520	4-1	28.000
5	0.000	DEAD	0.481	5-1	0.000
5	26.000	DEAD	0.020	5-1	26.000
5	52.000	DEAD	-0.440	5-1	52.000
5	0.000	Live	47.751	5-1	0.000
5	26.000	Live	2.029	5-1	26.000
5	52.000	Live	-43.694	5-1	52.000
5	0.000	quake	26.784	5-1	0.000
5	26.000	quake	-52.776	5-1	26.000
5	52.000	quake	-132.336	5-1	52.000
6	0.000	DEAD	0.517	6-1	0.000
6	26.000	DEAD	-0.198	6-1	26.000
6	52.000	DEAD	-0.914	6-1	52.000
6	0.000	Live	51.363	6-1	0.000
6	26.000	Live	-19.707	6-1	26.000
6	52.000	Live	-90.778	6-1	52.000
6	0.000	quake	-10.549	6-1	0.000
6	26.000	quake	-50.329	6-1	26.000
6	52.000	quake	-90.109	6-1	52.000
7	0.000	DEAD	-0.952	7-1	0.000
7	21.600	DEAD	-0.013	7-1	21.600
7	43.200	DEAD	0.457	7-1	43.200
7	64.800	DEAD	0.457	7-1	64.800
7	86.400	DEAD	-0.013	7-1	86.400
7	108.000	DEAD	-0.952	7-1	108.000
7	0.000	Live	-94.617	7-1	0.000
7	21.600	Live	-1.305	7-1	21.600
7	43.200	Live	45.351	7-1	43.200

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	M3	FrameElem	ElemStation
	in		Kip-in		in
7	64.800	Live	45.351	7-1	64.800
7	86.400	Live	-1.305	7-1	86.400
7	108.000	Live	-94.617	7-1	108.000
7	0.000	quake	155.304	7-1	0.000
7	21.600	quake	93.182	7-1	21.600
7	43.200	quake	31.061	7-1	43.200
7	64.800	quake	-31.061	7-1	64.800
7	86.400	quake	-93.182	7-1	86.400
7	108.000	quake	-155.304	7-1	108.000
8	0.000	DEAD	-0.957	8-1	0.000
8	21.600	DEAD	-0.018	8-1	21.600
8	43.200	DEAD	0.452	8-1	43.200
8	64.800	DEAD	0.452	8-1	64.800
8	86.400	DEAD	-0.018	8-1	86.400
8	108.000	DEAD	-0.957	8-1	108.000
8	0.000	Live	-95.057	8-1	0.000
8	21.600	Live	-1.745	8-1	21.600
8	43.200	Live	44.911	8-1	43.200
8	64.800	Live	44.911	8-1	64.800
8	86.400	Live	-1.745	8-1	86.400
8	108.000	Live	-95.057	8-1	108.000
8	0.000	quake	121.787	8-1	0.000
8	21.600	quake	73.072	8-1	21.600
8	43.200	quake	24.357	8-1	43.200
8	64.800	quake	-24.357	8-1	64.800
8	86.400	quake	-73.072	8-1	86.400
8	108.000	quake	-121.787	8-1	108.000
9	0.000	DEAD	-0.914	9-1	0.000
9	21.600	DEAD	0.026	9-1	21.600
9	43.200	DEAD	0.495	9-1	43.200
9	64.800	DEAD	0.495	9-1	64.800
9	86.400	DEAD	0.026	9-1	86.400
9	108.000	DEAD	-0.914	9-1	108.000
9	0.000	Live	-90.778	9-1	0.000
9	21.600	Live	2.534	9-1	21.600
9	43.200	Live	49.190	9-1	43.200
9	64.800	Live	49.190	9-1	64.800
9	86.400	Live	2.534	9-1	86.400
9	108.000	Live	-90.778	9-1	108.000
9	0.000	quake	90.109	9-1	0.000
9	21.600	quake	54.066	9-1	21.600
9	43.200	quake	18.022	9-1	43.200
9	64.800	quake	-18.022	9-1	64.800
9	86.400	quake	-54.066	9-1	86.400
9	108.000	quake	-90.109	9-1	108.000

10. Material take-off

This section provides a material take-off.

Table 19: Material List 2 - By Section Property

Table 19: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength in	TotalWeight Kip
W8X28	Frame	6	264.000	0.617
W6X12	Frame	3	324.000	0.326

11. Design preferences

This section provides the design preferences for each type of design, which typically include material reduction factors, framing type, stress ratio limit, deflection limits, and other code specific items.

11.1. Steel design

Table 20: Preferences - Steel Design - AISC-LRFD93, Part 1 of 2

Table 20: Preferences - Steel Design - AISC-LRFD93, Part 1 of 2

THDesign	FrameType	PatLLF	SRatioLimit	MaxIter	PhiB	PhiC	PhiT	PhiV
Envelopes	Moment Frame	0.750000	0.950000	1	0.900000	0.850000	0.900000	0.900000

Table 20: Preferences - Steel Design - AISC-LRFD93, Part 2 of 2

Table 20: Preferences - Steel Design - AISC-LRFD93, Part 2 of 2

PhiCA	CheckDefl	DLRat	SDLAndLLRat	LLRat	TotalRat	NetRat
0.900000	No	360.000000	480.000000	480.000000	480.000000	480.000000

11.2. Concrete design

Table 21: Preferences - Concrete Design - ACI 318-05/IBC2003, Part 1 of 2

Table 21: Preferences - Concrete Design - ACI 318-05/IBC2003, Part 1 of 2

THDesign	NumCurves	NumPoints	MinEccen	PatLLF	UFLimit	SeisCat	PhiT	PhiCTied
Envelopes	24	11	No	0.750000	0.950000	D	0.900000	0.650000

Table 21: Preferences - Concrete Design - ACI 318-05/IBC2003, Part 2 of 2

Table 21: Preferences - Concrete Design - ACI 318-05/IBC2003, Part 2 of 2

PhiCSpiral	PhiV	PhiVSeismic	PhiVJoint
0.700000	0.750000	0.600000	0.850000

11.3. Aluminum design

Table 22: Preferences - Aluminum Design - AA-ASD 2000

Table 22: Preferences - Aluminum Design - AA-ASD 2000

THDesign	FrameType	SRatioLimit	MaxIter	LatFact	UseLatFact	Bridge
Envelopes	Moment Frame	1.000000	1	1.333333	No	No

11.4. Cold formed design

Table 23: Preferences - Cold Formed Design - AISI-ASD96, Part 1 of 2

Table 23: Preferences - Cold Formed Design - AISI-ASD96, Part 1 of 2

THDesign	FrameType	SRatioLimit	MaxIter	OmegaBS	OmegaBUS	OmegaBLTB	OmegaVS	OmegaVNS
Envelopes	Braced Frame	1.000000	1	1.670000	1.670000	1.670000	1.670000	1.500000

Table 23: Preferences - Cold Formed Design - AISI-ASD96, Part 2 of 2

Table 23: Preferences - Cold Formed Design - AISI-ASD96, Part 2 of 2

OmegaT	OmegaC
1.670000	1.800000

12. Design overwrites

This section provides the design overwrites for each type of design, which are assigned to individual members of the structure.

12.1. Steel design

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 1 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 1 of 6

Frame	DesignSect	FrameType	Fy Kip/in2	RLLF	AreaRatio	XLMajor
1	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
2	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
3	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
4	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 1 of 6

Frame	DesignSect	FrameType	Fy Kip/in2	RLLF	AreaRatio	XLMajor
5	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
6	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
7	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
8	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000
9	Program Determined	Program Determined	0.000	0.000000	0.000000	0.000000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 2 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 2 of 6

Frame	XLMinor	XKMajor	XKMinor	CmMajor	CmMinor	Cb	B1Major
1	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 3 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 3 of 6

Frame	B1Minor	B2Major	B2Minor	PhiPnc Kip	PhiPnt Kip	PhiMn3 Kip-in	PhiMn2 Kip-in
1	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
2	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
3	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
4	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
5	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
6	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
7	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
8	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000
9	0.000000	0.000000	0.000000	0.000	0.000	0.000	0.000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 4 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 4 of 6

Frame	PhiVn2 Kip	PhiVn3 Kip	CheckDefl	DeflType	DLRat	SDLAndLLRat	LLRat
1	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
2	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
3	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
4	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
5	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 4 of 6

Frame	PhiVn2 Kip	PhiVn3 Kip	CheckDefl	DeflType	DLRat	SDLAndLLRat	LLRat
6	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
7	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
8	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000
9	0.000	0.000	Program Determined	Program Determined	0.000000	0.000000	0.000000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 5 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 5 of 6

Frame	TotalRat	NetRat	DLAbs in	SDLAndLLAbs in	LLAbs in	TotalAbs in	NetAbs in
1	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.000000	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 6 of 6

Table 24: Overwrites - Steel Design - AISC-LRFD93, Part 6 of 6

Frame	SpecCamber in
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000

13. Design summary

This section provides the design summary for each type of design, which highlights the controlling demand/capacity ratio and it's associated combination and location in each member.

13.1. Steel design

Table 25: Steel Design 1 - Summary Data - AISC-LRFD93, Part 1 of 2

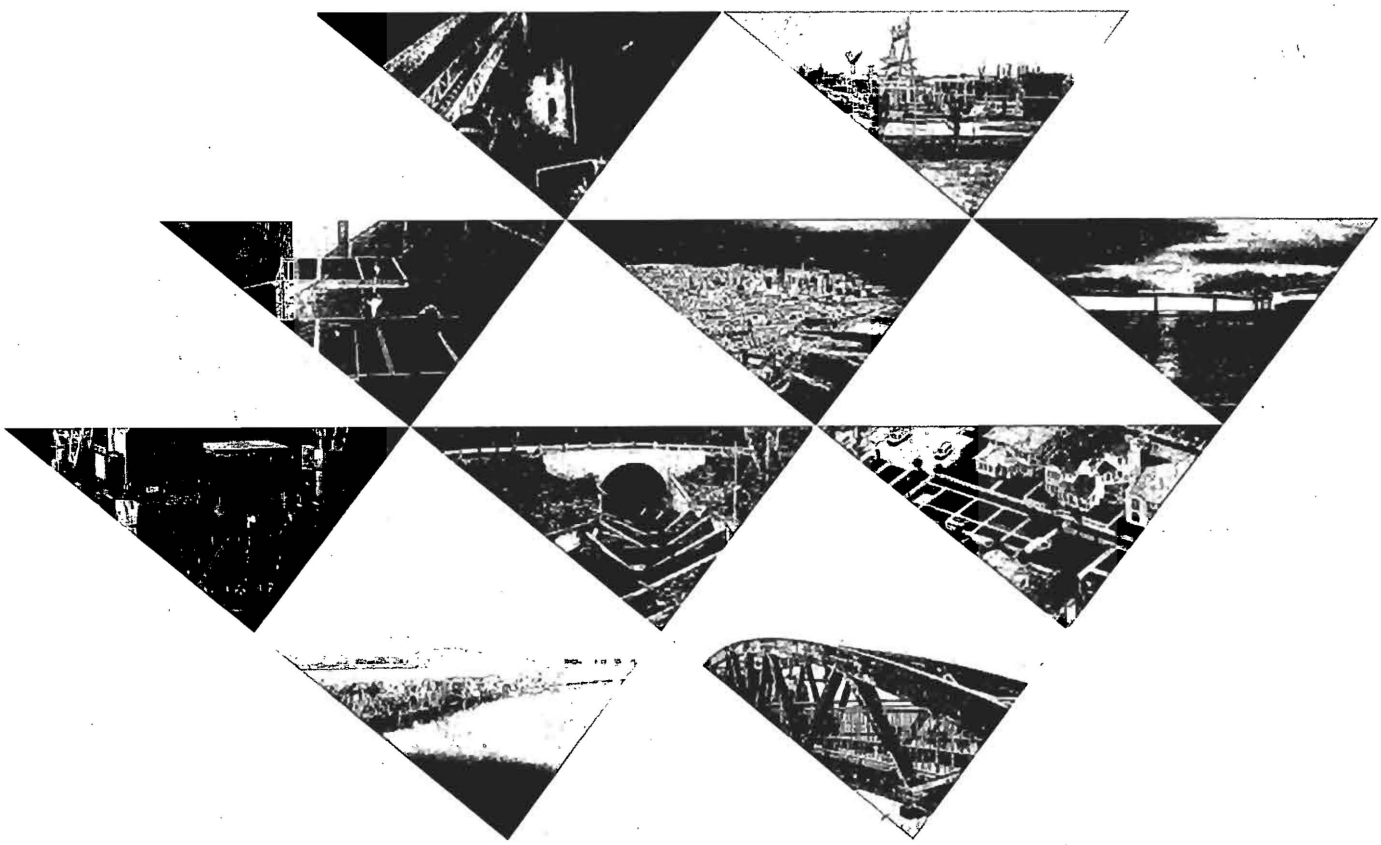
Table 25: Steel Design 1 - Summary Data - AISC-LRFD93, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1	W8X28	Column	No Messages	0.152093	PMM
2	W8X28	Column	No Messages	0.145110	PMM
3	W8X28	Column	No Messages	0.134526	PMM
4	W8X28	Column	No Messages	0.152093	PMM
5	W8X28	Column	No Messages	0.145110	PMM
6	W8X28	Column	No Messages	0.134526	PMM
7	W6X12	Beam	No Messages	0.851263	
8	W6X12	Beam	No Messages	0.851220	
9	W6X12	Beam	No Messages	0.851639	

Table 25: Steel Design 1 - Summary Data - AISC-LRFD93, Part 2 of 2

Table 25: Steel Design 1 - Summary Data - AISC-LRFD93, Part 2 of 2

Frame	Combo	Location in	ErrMsg	WarnMsg
1	UDSTL8	28.000	No Messages	No Messages
2	UDSTL8	52.000	No Messages	No Messages
3	UDSTL6	52.000	No Messages	No Messages
4	UDSTL7	28.000	No Messages	No Messages
5	UDSTL7	52.000	No Messages	No Messages
6	UDSTL6	52.000	No Messages	No Messages
7	UDSTL12	43.200	No Messages	No Messages
8	UDSTL12	43.200	No Messages	No Messages
9	UDSTL12	43.200	No Messages	No Messages



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