Design1Overturning

1.00000	0.00000	0.00000
2.00000	0.00000	25.56000
3.00000	0.00000	39.00000
4.00000	0.00000	65.04000
5.00000	0.00000	78.00000
6.00000	125.26000	25.56000
7.00000	125.26000	65.04000

```
----------------------------------------
Boundary Conditions: 1 = Restrained, 0 = Free
(Node No. - Tx - Ty - Rz)
----------------------------------------

BOUNDS =

  1  0  1  0
  6  1  1  1
  7  1  1  1


----------------------------------------


----------------------------------------
Element Information:
(Ele No. - iNode - jNode - Member Type - E - A - I)
----------------------------------------

ELES =

    1.00000     1.00000     2.00000     0.00000   29000.00000   9999.00000  999999.00000
    2.00000     2.00000     3.00000     0.00000   29000.00000   9999.00000  999999.00000
    3.00000     3.00000     4.00000     0.00000   29000.00000   9999.00000  999999.00000
    4.00000     4.00000     5.00000     0.00000   29000.00000   9999.00000  999999.00000
    5.00000     4.00000     7.00000     0.00000   29000.00000      2.00000       2.85000
    6.00000     4.00000     6.00000     0.00000   29000.00000      2.00000       2.85000
    7.00000     2.00000     7.00000     0.00000   29000.00000      2.00000       2.85000


----------------------------------------


----------------------------------------
Load Information:
(Node No. - Fx - Fy - Mz)
----------------------------------------

LOADS =

    5.00000     0.00000     0.00000   1184.40000


----------------------------------------


plotFile = ../../1. OUTPUT/Design1Overturning.png
ans =

  -12.526   137.786   -36.156   114.156


***********************************
```

ANALYSIS
****

kff =

Columns 1 through 5:

20839930.25578	-266334308.66891	-20839930.25578	0.00000	-266334308.66891
-266334308.66891	4538336619.71831	266334308.66891	0.00000	2269168309.85916
-20839930.25578	266334308.66891	164184821.90478	126.48843	-696940672.07172
0.00000	0.00000	126.48843	32919981.82914	27.42019
-266334308.66891	2269168309.85916	-696940672.07172	27.42019	13169282886.95577
0.00000	0.00000	-143344489.89557	0.00000	963274972.09821
0.00000	0.00000	0.00000	-21575223.21429	0.00000
0.00000	0.00000	-963274972.09821	0.00000	4315471875.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000

Columns 6 through 10:

0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
-143344489.89557	0.00000	-963274972.09821	0.00000	0.00000
0.00000	-21575223.21429	0.00000	0.00000	0.00000
963274972.09821	0.00000	4315471875.00000	0.00000	0.00000
163053094.19258	0.00000	706668944.15114	-19708604.29701	0.00000
0.00000	32710822.29263	0.00000	0.00000	-11135599.07834
706668944.15114	0.00000	13085624395.16129	256606027.94708	0.00000
-19708604.29701	0.00000	256606027.94708	179578302.20156	-126.48843
0.00000	-11135599.07834	0.00000	-126.48843	33509945.44354
-256606027.94708	0.00000	2227340322.58064	-779344001.99075	59.02618
0.00000	0.00000	0.00000	-159868833.11424	0.00000
0.00000	0.00000	0.00000	0.00000	-22374305.55556
0.00000	0.00000	0.00000	-1035950038.58025	0.00000

Columns 11 through 14:

0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000
-256606027.94708	0.00000	0.00000	0.00000

0.00000	0.00000	0.00000	0.00000	
2227340322.58064	0.00000	0.00000	0.00000	
-779344001.99075	-159868833.11424	0.00000	-1035950038.58025	
59.02618	0.00000	-22374305.55556	0.00000	
13405294135.04232	1035950038.58025	0.00000	4475304166.66667	
1035950038.58025	159868833.11424	0.00000	1035950038.58025	
0.00000	0.00000	22374305.55556	0.00000	
4475304166.66667	1035950038.58025	0.00000	8950608333.33334	

Number of dof: 14
Number of loads: 1
LOADS =

5.00000	0.00000	0.00000	1184.40000

deg = 12
deg = 13
deg = 14
P =

0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
0.00000
1184.40000

uf =

0.1431293754
0.0027252670
0.0734715509
-0.0000012205
0.0027252670
0.0368435316
-0.0000014281
0.0027253617
-0.0341325880
-0.0000018302

0.0027260681

-0.0694658602

-0.0000018302

0.0027265974

****
Post Process
****

Nodal Displacements:
(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.14313	0.00000	0.00273
2.00000	0.07347	-0.00000	0.00273
3.00000	0.03684	-0.00000	0.00273
4.00000	-0.03413	-0.00000	0.00273
5.00000	-0.06947	-0.00000	0.00273
6.00000	0.00000	0.00000	0.00000
7.00000	0.00000	0.00000	0.00000

Global Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

GlobalForces =

1.00000	0.00000	13.84619	-0.00000	-0.00000	-13.84619	0.00000
2.00000	-29.49374	4.47821	-6.22514	29.49374	-4.47821	402.62101
3.00000	-29.49374	4.47821	-402.62101	29.49374	-4.47821	1170.63800
4.00000	0.00000	0.00000	-1184.40000	-0.00000	0.00000	1184.40000
5.00000	-15.80465	0.08616	7.19488	15.80465	-0.08616	3.59741
6.00000	-13.68909	4.39205	6.56712	13.68909	-4.39205	3.13604
7.00000	29.49374	9.36798	6.22514	-29.49374	-9.36798	2.79507

Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

LocalForces =

1.00000	13.84619	-0.00000	-0.00000	-13.84619	0.00000	0.00000
2.00000	4.47821	29.49374	-6.22514	-4.47821	-29.49374	402.62101
3.00000	4.47821	29.49374	-402.62101	-4.47821	-29.49374	1170.63800
4.00000	0.00000	-0.00000	-1184.40000	0.00000	0.00000	1184.40000
5.00000	-15.80465	0.08616	7.19488	15.80465	-0.08616	3.59741
6.00000	-14.37623	0.07388	6.56712	14.37623	-0.07388	3.13604
7.00000	30.94568	0.06868	6.22514	-30.94568	-0.06868	2.79507

Nodal Support Reactions:
(Node No. - Fx - Fy - Mz)

Support =

1.00000	0.00000	13.84619	0.00000
2.00000	0.00000	0.00000	0.00000
3.00000	0.00000	0.00000	0.00000
4.00000	0.00000	0.00000	0.00000
5.00000	0.00000	0.00000	0.00000
6.00000	13.68909	-4.39205	3.13604
7.00000	-13.68909	-9.45414	6.39248

sumFx = 0.00000000058268
sumFy = -2.6645e-14
sumMz = 9.5285