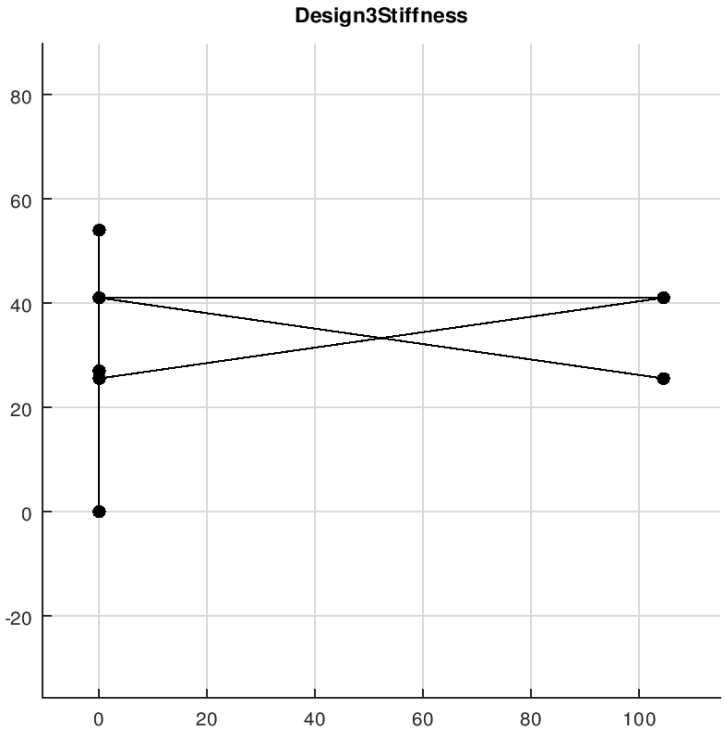

Column1
****
GEOMETRY
****

Nodal Coordinates:
(Node No. - X - Y - Z)

NODES =
1.00000 0.00000 0.00000
2.00000 0.00000 25.56000
3.00000 0.00000 27.00000
4.00000 0.00000 41.04000
5.00000 0.00000 54.00000
6.00000 104.50000 25.56000
7.00000 104.50000 41.04000

```
---------------------------------------
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    1.00000   29000.00000       2.00000       2.85000
    6.00000    4.00000    6.00000    1.00000   29000.00000       2.00000       2.85000
    7.00000    2.00000    7.00000    1.00000   29000.00000       2.00000       2.85000

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

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

LOADS =

    1     0     0  1000

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

plotFile = ../../1. OUTPUT/Design3Stiffness.png
ans =

  -10.450  114.950  -35.700   89.700

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

ANALYSIS

****

kff =

Columns 1 through 9:

2.0840e+07	-2.6633e+08	-2.0840e+07	0.0000e+00	-2.6633e+08	0.0000e+00	0.0000e+00	0.0000e+00	0.
-2.6633e+08	4.5383e+09	2.6633e+08	0.0000e+00	2.2692e+09	0.0000e+00	0.0000e+00	0.0000e+00	0.
-2.0840e+07	2.6633e+08	1.1657e+11	7.9554e+01	-8.3646e+10	-1.1654e+11	0.0000e+00	-8.3912e+10	0.
0.0000e+00	0.0000e+00	7.9554e+01	2.1271e+08	0.0000e+00	0.0000e+00	-2.0137e+08	0.0000e+00	0.
-2.6633e+08	2.2692e+09	-8.3646e+10	0.0000e+00	8.5094e+10	8.3912e+10	0.0000e+00	4.0278e+10	0.
0.0000e+00	0.0000e+00	-1.1654e+11	0.0000e+00	8.3912e+10	1.1667e+11	0.0000e+00	8.3029e+10	-1.
0.0000e+00	0.0000e+00	0.0000e+00	-2.0137e+08	0.0000e+00	0.0000e+00	2.2202e+08	0.0000e+00	0.
0.0000e+00	0.0000e+00	-8.3912e+10	0.0000e+00	4.0278e+10	8.3029e+10	0.0000e+00	8.8818e+10	8.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-1.2574e+08	0.0000e+00	8.8270e+08	2.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-2.0653e+07	0.0000e+00	-7.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-8.8270e+08	0.0000e+00	4.1311e+09	-1.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-1.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-1.

Columns 10 through 14:

0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	-8.8270e+08	0.0000e+00	0.0000e+00	0.0000e+00
-2.0653e+07	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
0.0000e+00	4.1311e+09	0.0000e+00	0.0000e+00	0.0000e+00
-7.9554e+01	-1.5325e+08	-1.5987e+08	0.0000e+00	-1.0360e+09
4.3028e+07	0.0000e+00	0.0000e+00	-2.2374e+07	0.0000e+00
0.0000e+00	1.7213e+10	1.0360e+09	0.0000e+00	4.4753e+09
0.0000e+00	1.0360e+09	1.5987e+08	0.0000e+00	1.0360e+09
-2.2374e+07	0.0000e+00	0.0000e+00	2.2374e+07	0.0000e+00
0.0000e+00	4.4753e+09	1.0360e+09	0.0000e+00	8.9506e+09

Number of dof: 14

Number of loads: 1

LOADS =

1	0	0	1000

deg = 1

deg = 2

P =

0
1000
0
0
0
0
0
0
0
0
0
0
0
0

uf =

0.4164496357
0.0115891742
0.1202416072
-0.0000012579
0.0115882928
0.1035545001
-0.0000012813
0.0115882455
-0.0591424113
-0.0000015091
0.0115880259
-0.2093232272
-0.0000015091
0.0115880259

****
Post Process
****

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

NodalDisp =

1.00000 0.41645 0.00000 0.01159
2.00000 0.12024 -0.00000 0.01159

3.00000	0.10355	-0.00000	0.01159
4.00000	-0.05914	-0.00000	0.01159
5.00000	-0.20932	-0.00000	0.01159
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	14.27060	1000.00000	-0.00000	-14.27060	-1000.00000
2.00000	-64.59948	4.70497	999.99999	64.59948	-4.70497	-906.97675
3.00000	-64.59948	4.70497	906.97674	64.59948	-4.70497	0.00000
4.00000	-0.00000	0.00000	-0.00000	0.00000	0.00000	-0.00000
5.00000	-32.82545	-0.00000	0.00000	32.82545	0.00000	-0.00003
6.00000	-31.77403	4.70497	0.00000	31.77403	-4.70497	-0.19258
7.00000	64.59948	9.56563	0.00000	-64.59948	-9.56563	-0.39150

Local Member Forces:

(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

LocalForces =

1.00000	14.27060	-0.00000	1000.00000	-14.27060	0.00000	-1000.00000
2.00000	4.70497	64.59948	999.99999	-4.70497	-64.59948	-906.97675
3.00000	4.70497	64.59948	906.97674	-4.70497	-64.59948	0.00000
4.00000	0.00000	0.00000	-0.00000	0.00000	-0.00000	-0.00000
5.00000	-32.82545	-0.00000	0.00000	32.82545	0.00000	-0.00003
6.00000	-32.12049	-0.00182	0.00000	32.12049	0.00182	-0.19258
7.00000	65.30386	-0.00371	0.00000	-65.30386	0.00371	-0.39150

Nodal Support Reactions:

(Node No. - Fx - Fy - Mz)

Support =

1.00000	0.00000	14.27060	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	31.77403	-4.70497	-0.19258
7.00000	-31.77403	-9.56563	-0.39153

sumFx = 0.0000042975

sumFy = 5.3291e-14

sumMz = -0.58412

0000e+00
0000e+00
0000e+00
0000e+00
0000e+00
2574e+08
0000e+00
3270e+08
3561e+08
9554e+01
5325e+08
5987e+08
0000e+00
0360e+09