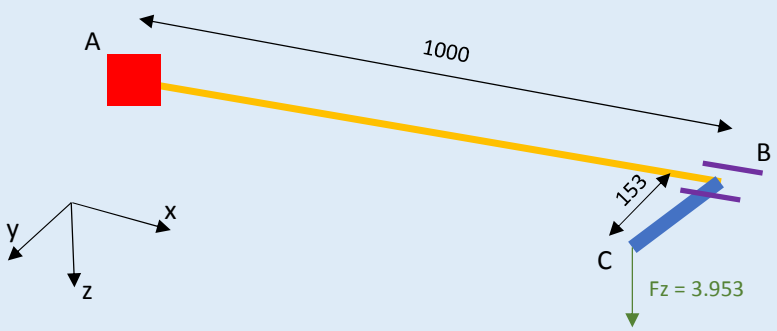
Inputs to GEBT

```
0 99 2
3 2 3 2 0 0 0 0 0
1 0 0 0
2 1000 0 0
3 1000 153 0

1 1 2 1 1 0 1 0
2 2 3 2 2 0 1 0

1
1 2 3 4 5 6
0 0 0 0 0 0
0 0 0 0 0 0
0 0 0 0 0 0

2
2 3 5 6 7 10
0 0 0 0 0 0
0 0 0 0 0 0
0 0 0 0 0 0

3
7 8 9 10 11 12
0 0 3.953 0 0 0
0 0 0 0 0 0
0 0 0 0 0 0
```

Fully fixed

Free to translate rotate upon X, Other degrees of freedom are fixed

Applies force upon Z



Material of the main beam

```
1
     4.8449054736E-07    0.0000000000E+00    0.0000000000E+00    0.0000000000E+00   -4.3110706619E-21   -2.4692573741E-21
     0.0000000000E+00    2.5263777469E-06    1.4286014939E-19   -7.3456086797E-23    0.0000000000E+00    0.0000000000E+00
     0.0000000000E+00    1.4286014939E-19    2.5263777469E-06    2.8483461550E-22    0.0000000000E+00    0.0000000000E+00
     0.0000000000E+00   -7.3456086797E-23    2.8483461550E-22    6.2865682450E-08    0.0000000000E+00    0.0000000000E+00
    -4.3110706619E-21    0.0000000000E+00    0.0000000000E+00    0.0000000000E+00    4.7267364444E-08   -3.7986492167E-22
    -2.4692573741E-21    0.0000000000E+00    0.0000000000E+00    0.0000000000E+00   -3.7986492167E-22    4.7267364444E-08
```

Much stiffer material for the lever arm

```
2
9.0383770549E-008 0.0000000000E+000 0.0000000000E+000 0.0000000000E+000 -2.8065456918E-023 1.8861581857E-022
0.0000000000E+000 2.7656430909E-007 1.4032732695E-021 -5.2660892595E-024 0.0000000000E+000 0.0000000000E+000
0.0000000000E+000 1.4032732695E-021 2.7656430909E-007 -1.1394933346E-023 0.0000000000E+000 0.0000000000E+000
0.0000000000E+000 -5.2660892595E-024 -1.1394933346E-023 2.3198208184E-008 0.0000000000E+000 0.0000000000E+000
-2.8065456918E-023 0.0000000000E+000 0.0000000000E+000 0.0000000000E+000 1.7844772331E-008 -1.4363222275E-023
1.8861581857E-022 0.0000000000E+000 0.0000000000E+000 0.0000000000E+000 -1.4363222275E-023 1.7844772331E-008
```

Outputs from GEBT

```
Step #              2
Point #:            1
-------------------------------------
  0.0000000E+00  0.0000000E+00  0.0000000E+00
  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00
 -4.6775451E-19  0.0000000E+00  0.0000000E+00  2.0431924E-16  0.0000000E+00  0.0000000E+00

Point #:            2
-------------------------------------
  1.0000000E+03  0.0000000E+00  0.0000000E+00
 -2.2662264E-22  0.0000000E+00  0.0000000E+00  1.2844669E-20  0.0000000E+00  0.0000000E+00
  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00

Point #:            3
-------------------------------------
  1.0000000E+03  1.5300000E+02  0.0000000E+00
 -1.3083638E-05  5.1687139E-17  6.3328718E-02  5.9588641E-21 -8.2563990E-04  6.6455851E-19
  0.0000000E+00  0.0000000E+00  3.9530000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00

Member #:           1
-------------------------------------
  5.0000000E+02  0.0000000E+00  0.0000000E+00
 -1.1331132E-22  0.0000000E+00  0.0000000E+00  6.4223344E-21  0.0000000E+00  0.0000000E+00
 -4.6775451E-19  0.0000000E+00  0.0000000E+00  2.0431924E-16  0.0000000E+00  0.0000000E+00

Member #:           2
-------------------------------------
  1.0000000E+03  7.6500000E+01  0.0000000E+00
 -6.5418192E-06  2.5843570E-17  3.1664359E-02  9.4017664E-21 -4.1281995E-04  3.3227926E-19
  1.6318772E-03  3.7436301E-20  3.9529997E+00  1.6774799E-18 -3.0240447E+02  2.8638770E-18
```

Why not force Balance

Why the resulting moment in A does not match the applies Force * Lever Arm Length