

CEE 235A: Final Project

Interim Submission 2

We validated the structure explained in class:

Our outputs were:

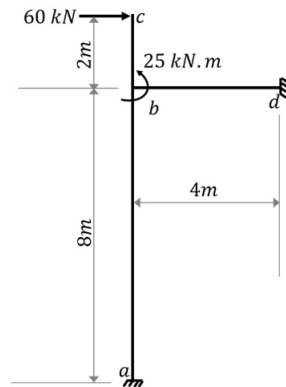
member	id										
1	2	3	4	5	6	7	8	9	10	11	12
7	8	9	10	11	12	13	14	15	16	17	18
13	14	15	16	17	18	19	20	21	22	23	24
19	20	21	22	23	24	1	2	3	4	5	6
1	2	3	4	5	6	13	14	15	16	17	18

load_dof

[illegible]

These matched the ones discussed in class for the structure.

We also tested our code on the structure in HW 4, Problem 2:



$$E = 200\text{ kN/mm}^2$$

$$I = 500 \times 10^6\text{ mm}^4$$

$$A = 10 \times 10^3\text{ mm}^2$$

Our outputs were:

member	id										
1	2	3	4	5	6	7	8	9	10	11	12
7	8	9	10	11	12	13	14	15	16	17	18
7	8	9	10	11	12	19	20	21	22	23	24

```
load_dof
0
0
0
0
0
0
0
0
0
0
0
0
0
25000
60
0
0
0
0
0
0|
0
0
0
0
0
0
0
```

These matched the ones from theory obtained during solving the same by hand.