﻿# Charlie, Sara, Kristen’s design (in inches)

#

# number of joints, bar, reactions, loads

15 39 6 3

#

# 0.5 inches is added to each joint after (0,0,0) to account for added distance from the joints

#

# coordinates of joints

1 0.0 0.0 0.0

2 2.736 -2 0.0

3 2.736 2 0.0

4 4.2361 0.0 2.4

5 6.2361 -2 0.0

6 6.236 2 0.0

7 7.7361 0.0 2.4

8 9.7361 -2 0.0

9 9.7361 2 0.0

10 13.2361 0.0 2.4

11 13.2361 -2 0.0

12 13.2361 2 0.0

13 14.7361 0.0 2.4

14 16.7361 -2 0.0

15 16.7361 2 0.0

#

# connectivity of bars

1 1 2

2 1 3

3 2 3

4 2 5

5 3 5

6 3 6

7 5 6

8 5 8

9 5 9

10 6 9

11 8 9

12 8 11

13 9 11

14 9 12

15 11 12

16 11 14

17 11 15

18 12 15

19 14 15

20 14 13

21 15 13

22 12 13

23 11 13

24 11 10

25 12 10

26 13 10

27 8 10

28 9 10

29 8 7

30 9 7

31 10 7

32 5 7

33 6 7

34 5 4

35 6 4

36 7 4

37 2 4

38 3 4

39 1 4

#

# reaction forces

1 0.0 0.0 1

14 0.0 1 0.0

14 0.0 0.0 1

14 1 0.0 0.0

15 0.0 1 0.0

15 0.0 0.0 1

#

# external loads

2 0.0 0.0 0.0

3 0.0 0.0 0.0

4 0.0 0.0 0.0

#

# end of file