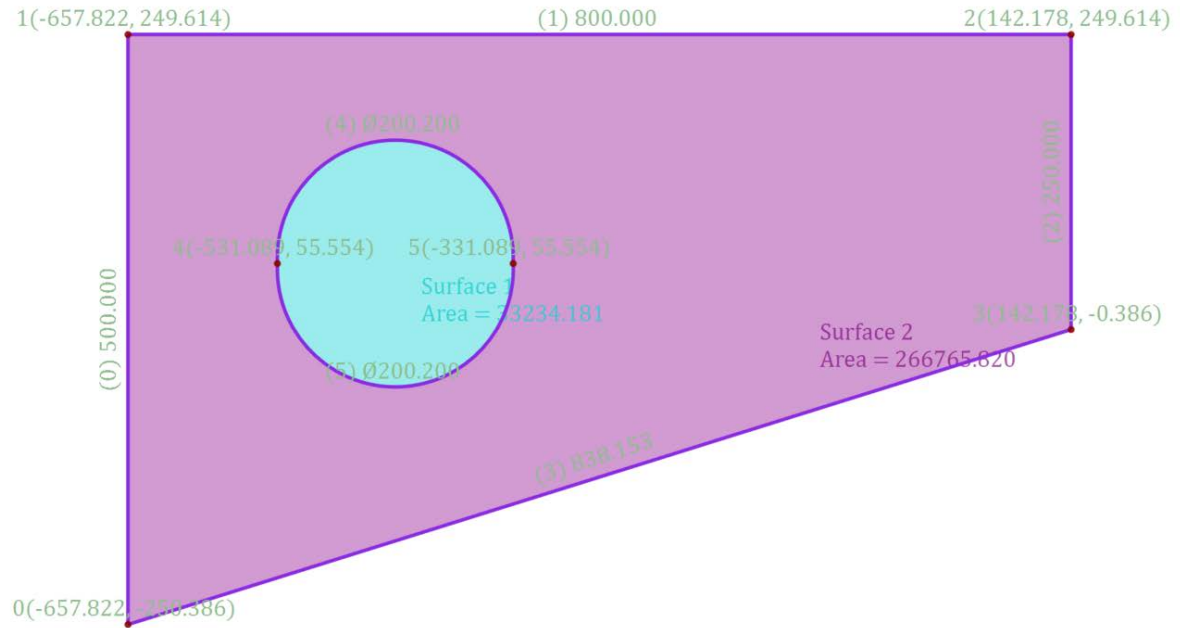


For the users who want to run this meshing tool without external tool, the following section expands on the format of Varai2D raw data – txt file.

Example 1:



In-order to create the surface above, we need the following inputs

```
#####  
##### Samson Mano's Varai2D Raw Data #####  
#####  
[+] End Points, 6  
0, -657.82177734375, -250.38616943359375  
1, -657.82177734375, 249.61383056640625  
2, 142.17822265625, 249.61383056640625  
3, 142.17822265625, -0.38616943359375  
4, -531.089111328125, 55.554443359375  
5, -331.089111328125, 55.554443359375  
[+] Lines, 4  
0, 0, 1  
1, 1, 2  
2, 2, 3  
3, 0, 3  
[+] Arcs, 2  
4, 4, 5  
c0, -431.089111328125, 60.027915954589844  
c1, -431.089111328125, 160.1279296875  
5, 4, 5  
c0, -431.089111328125, 51.08096694946289  
c1, -431.089111328125, -49.019046783447266  
[+] Surfaces, 2  
0, {1, 2, 3, 0}, n@1  
n0[5, 4]  
1, {5, 4}, n@0  
#####  
#####
```

Input: End points

Identifier for end points input

[+] End Points, 6

Number of end points

Point id

0, -657.82177734375, -250.38616943359375

Point x, y co-ordinate

1, -657.82177734375, 249.61383056640625

2, 142.17822265625, 249.61383056640625

3, 142.17822265625, -0.38616943359375

4, -531.089111328125, 55.554443359375

5, -331.089111328125, 55.554443359375

Input: Lines

Identifier for lines input

[+] Lines, 4

Number of Lines

Line id

0, 0, 1

Line start point id -> end point id

1, 1, 2

2, 2, 3

3, 0, 3

Input: Arcs

To create a circular arc, we need four points. The end points are already given. The points c0 is the arc center point and c1 is the point on the circular arc.

Identifier for Arcs input

[+] Arcs, 2

Number of Arcs

Arc id

4, 4, 5

Arc start point id -> end point id

c0, -431.089111328125, 60.027915954589844

Arc center point

c1, -431.089111328125, 160.1279296875

Point on the arc

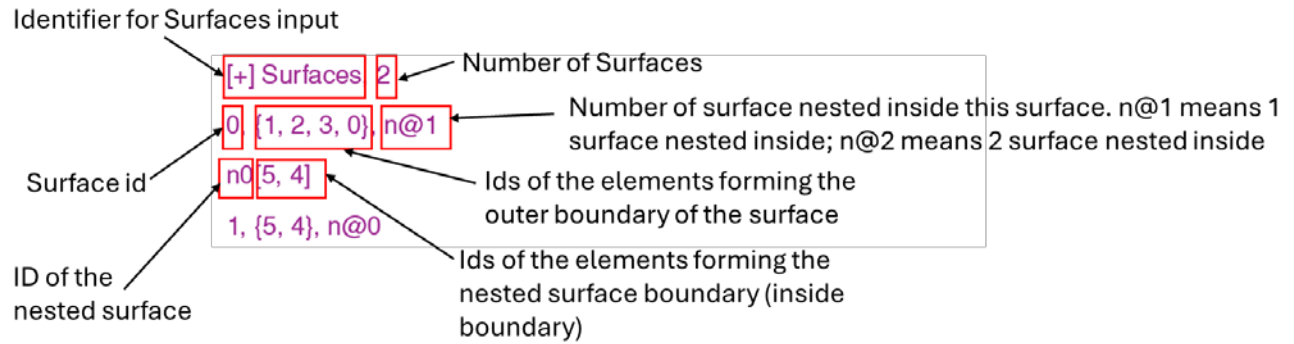
5, 4, 5

c0, -431.089111328125, 51.08096694946289

c1, -431.089111328125, -49.019046783447266

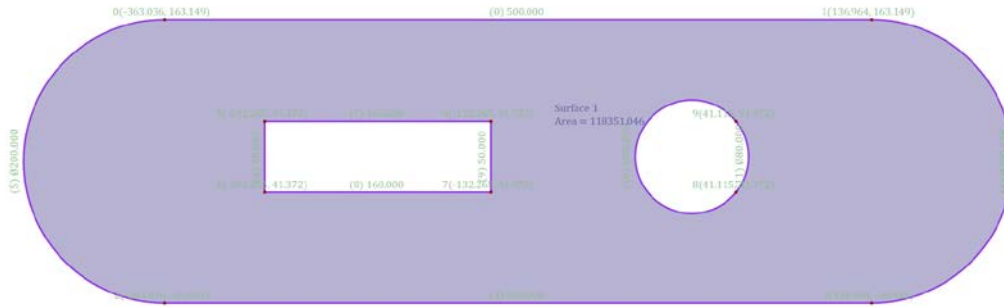
Input: Surface

The most important input to run the mesher is the surface input. Without the surface input the file will not be read by the mesher. Surface input covers the nesting data.

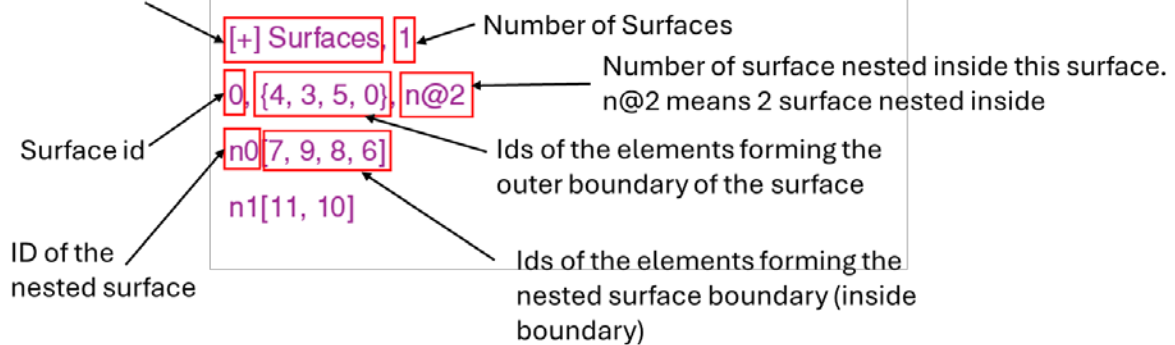


Example 2:

The surface input to form the below surface is shown below. This surface has two nested boundaries inside.



Identifier for Surfaces input



Result from the mesher:

