What did I do this week:

- Wrote a bit on the report
- Fixed a bug where it would produce negative nodes
- Implemented the winding number algorithm
- Did some investigating of the data and found a way around some of the previous challenges I've had

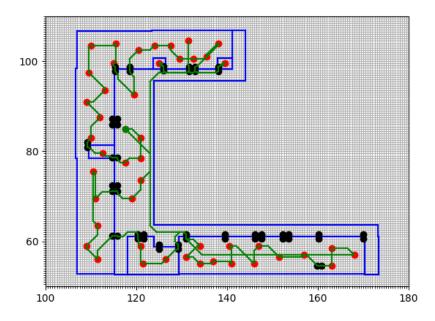
Challenges:

My challenge this week has been a few things:

 It seems that there are different level of elevations of the building. Each room has a minimum elevation and a maximum elevation value associated with it. The different combination of levels are shown below. The figure below shows a list of lists where each sublist consist of a minimum elevation value and a maximum elevation value. The unit of the values is not clear to me yet.

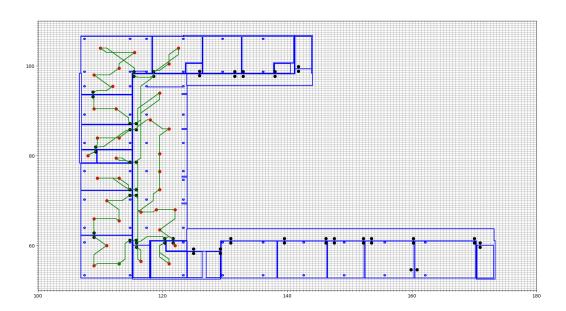
[[-2.154, 1.646], [-2.154, 0.285], [-5.954, -2.154], [-5.954, -3.515], [-9.754, -5.954], [-9.754, -5.754], [-9.754, -6.268], [-9.754, -5.525]]

Below is shown one floorplan only plotting the elevation level [-2.154, 1.646] and the other plotting the elevation levels [[-2.154,1.646],[-2.154,0.285]]. The second one includes the wall in the drawing.



2. The elevation levels for the rooms and the doors are not given in the same units. I have a hard time finding the correct doors for the correct floor plan, worst case scenario is that we have a bit too many doors compared to what is actually needed in the floor plan. Below is the elevation levels for the doors.

3. The problem with the wall separating the building is still present. Haven't found a good solution to it yet.



What should I do for next week:

- Contact Asger from Dalux and ask him questions about the data (if he wants to).
- Fix issue with the wall separating the building.
 Start testing on another building. Got an extra building from Anders.
 Do some more writing.