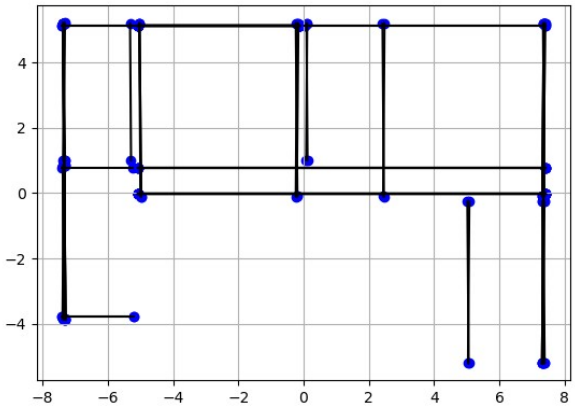
In this challenge you will find the raw data from an robot used in one of our simulations used to draw accurate floor plans.

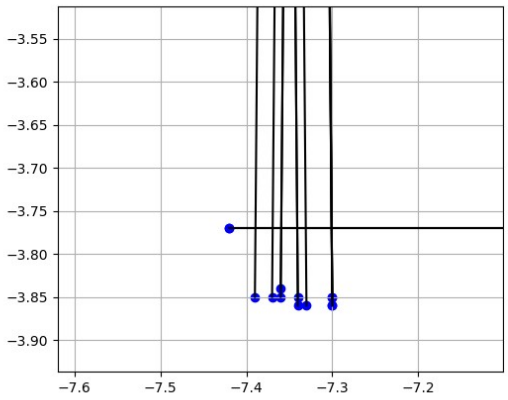
We have provided you with a file “draw_map.py” with methods to read and convert this raw data into a bunch of lines representing various walls in the simulation, which can be visualized as an image through a method provided in the file as well. Below is the image of how the floor plan looks like after visualization.



Your task:
Implement functions within this file to clean up the output as much as you can.

Hint(s):

If you follow the outputs from the process_measurement, you could see a lot of duplicate measurement for a single measurement, like seen below:



Try and figure out ways to clean this up, please note that this just one of the things that could be worked upon. There are a lot other issue that you can find and fix.

You could also make use of the SLAM map as a reference to filter out this map. (provided in the SLAM folder)