# AI 1st Assignment

First, I wasn’t aware on how to implement a file search using A\*. But I needed at least to read the file and to exploit it.

I used the examples of the course to first just read the file. Then, when I was sure that the stream was working, I started scanning each line and used Regex to extract the ID, the coordinates and finally the weights.

I needed to have a few different classes such as:

A file reader: that is supposed to read the whole dot file and to store all the data is corresponding objects

Node: So, I could store their ID, their coordinates and their edges

Graph: That is the heart of the program as you are storing all the nodes and will be used to implement the A\* path finder

I had real trouble when it came to the graph class because I was particularly struggling with the A\* path finder.