CSE 468/568 Lab 5: A* Planning

The objective of this assignment is to plan a path for a robot from a given starting point to a destination. Create a new package called `lab5`, and place the world files (`playground.pgm` and `playground.world`) from the previous assignment in an appropriate sub-folder. Also provided a file `map.txt` that roughly represents the given map as an obstacle grid.

The objective of the assignment is simple. Use A-* planning algorithm to find a route from a default start point (-8.0, -2.0) to a default goal (4.5, 9.0). Please read through the tutorial on ROS Parameters. The goal should be defined as two parameters `goalx` and `goaly` both of which should be of doubles. This should allow us to set a new goal parameter, and the robot should plan a path to the new goal.

Submission Instructions

You will submit `lab5.tar.gz`, a compressed archive file containing the lab1 folder. Please name the launch file `lab5.launch`.

Use the `submit` script for submission using the syntax

```
$ submit_cse468 lab5.tar.gz
```

or

```
$ submit_cse568 lab5.tar.gz
```

depending on whether you are taking cse468 or cse568 respectively.

Details on the usage of the submit script can be found here.

The assignment is due Friday, Dec 6 before class.