

Homework 2 A* search

Due 2/13/2017 4:00pm

1. Implement the A* search algorithm for the Romania map route-finding problem to find the shortest path between **Zerind** and **Bucharest**. Use **straight distance** as the heuristic function.

Answer the following questions:

- a) What route was discovered?
 - b) How many nodes were expanded?
 - c) What is the cost of this solution?
2. Same problem as in 1. with a new evaluation function $f' = (1-w)g + wh$, where $w = 0.25$ and $w = 0.75$.

Please submit the source code and results via e-learning.