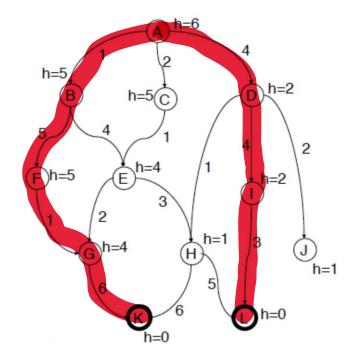
Informed Search

Lab 3

Exercise (greedy best first and A*, from A to the goal)

Must be submitted



Modify the program from last class to implement the greedy best first and A* search for this graph. Compare the solution paths. Play with the heuristics and see what different heuristic functions would yield as solutions. Play with weighted A* with different weights and compare.

Homework (A* Vacuum Cleaner)

Must be submitted

You should be able to use much of the code from the first homework (Lab 1). You will need to make a few changes though.

- 1. The state of the search should be represented with three elements: a state, a path and a cost. Ultimately, cost is defined as the number of moves taken to achieve the goal state from the initial state.
- 2. While moves and paths look the same as before, solutions (output) are the path, the cost of the solution and the number of explored nodes.

Challenge: Can you generalize it?