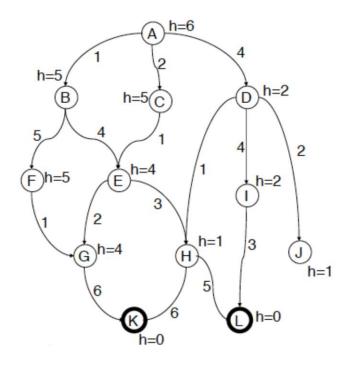
Informed Search

Lab 3

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



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.

Today's exercise is quite a bit more difficult than the first two labs. Ask questions when you need to and don't be discouraged.

Homework (A* Vacuum Cleaner)

You should be able to use much of the code from exercise 1. You will need to make a few changes though, especially with how to handle the state.

- 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.
- While moves and paths resemble those in lab 1, solutions (output) are the path, the cost of the solution and the number of explored nodes.

Challenge: Can you generalize it?