

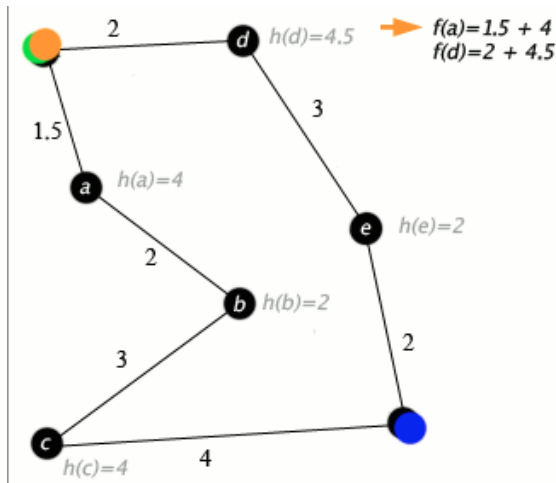
A* and Heuristic Search Exercise Solution

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Map Example - Find a path



Nodes are cities connected with roads and $h(x)$ is the straight-line distance to target point.

Map Example - a Formulation

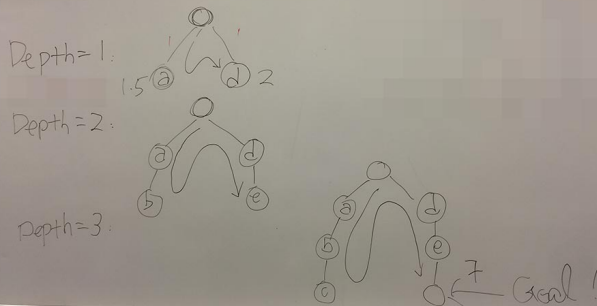
- States: the map with any path on it.
- Initial state: the map with no path on it.
- Goal test: the map with a path from the starting point to the end point.
- Actions: Extend the current path by one step.
- Path cost: the length of the path.

Exercise: Find a path using

1. Iterative Deepening
2. A* by tree

Iterative Deepening

1. Iterative Deepening



A* By Tree

2. A* By Tree

