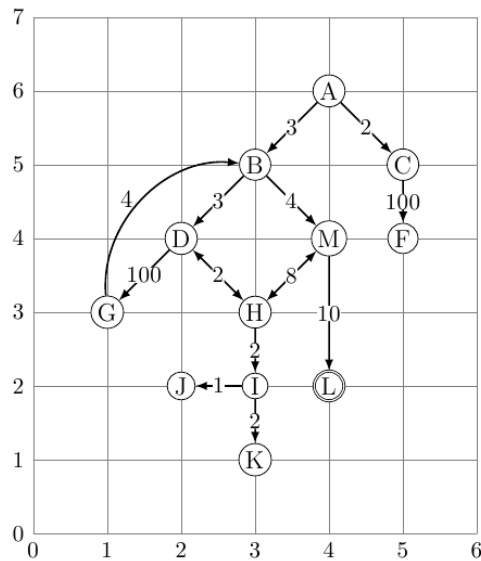


COMP 2019 Workbook Exercises Week 1 – Uninformed Search

Specify in which order the states of the following graph would be expanded under each of the specified search strategies, starting in state A. Assume states are expanded in alphabetical order if there are multiple states to choose by the algorithm. The edge labels denote the true costs of moving between adjacent states. The goal is to find a path to state L.



- 1) Which path from A to L will Breadth-First Search find first?
- 2) Which path from A to L will Uniform Cost Search find first?
- 3) Which path from A to L will Depth-First Search find first?
- 4) Which path from A to L will Iterative Deepening Depth-First Search find first?