

In the graph below you must show the operation of four search algorithms, starting at node S and searching for node G.

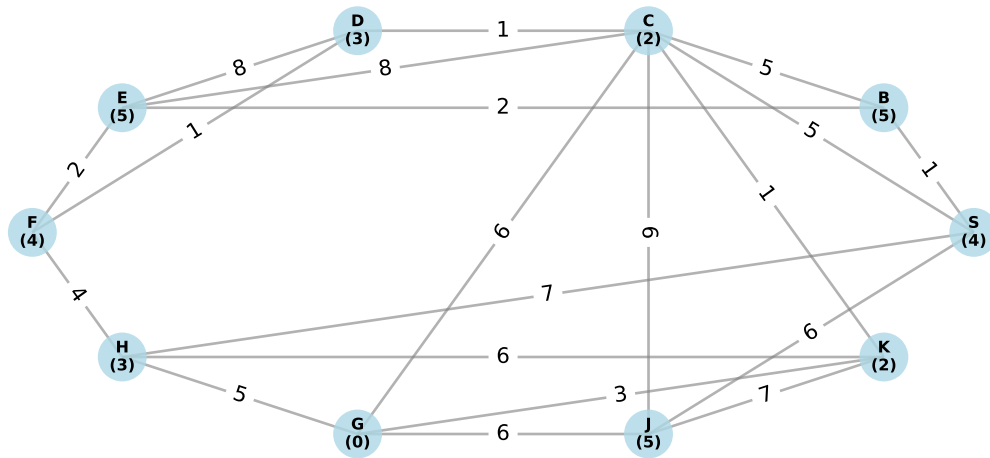
In each case, you must show all work in a table showing the node expanded and the search fringe.

In case of a tie between nodes, choose the one that comes earlier in the alphabet.

In depth-first search, do not add a node to the fringe if it is already in the fringe or has already been expanded.

In breadth-first search, test for the goal when a node is expanded, not when it is added to the fringe.

Graph:



Questions:

Question 1: Show the operation of depth-first search.

Question 2: Show the operation of breadth-first search.

Question 3: Show the operation of iterative deepening search.

Question 4: Show the operation of A* search.

The heuristic value (the estimated distance to the goal) is the integer in each node.

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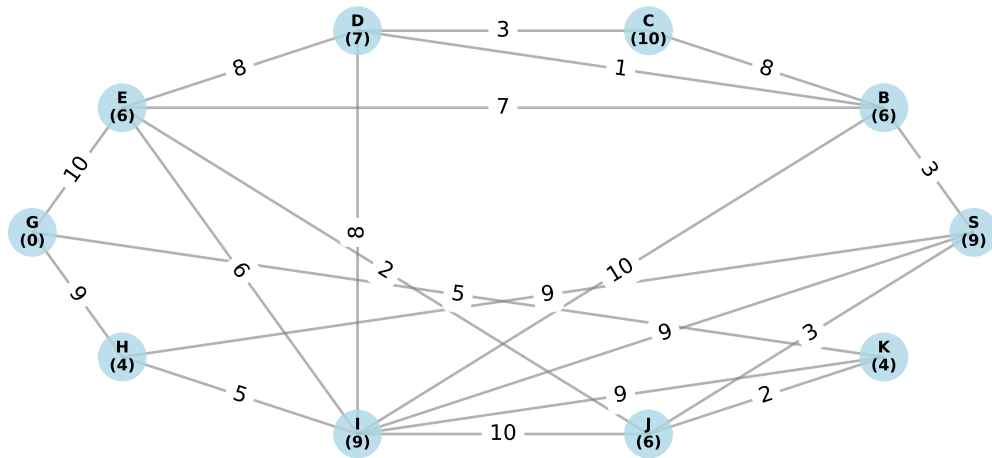
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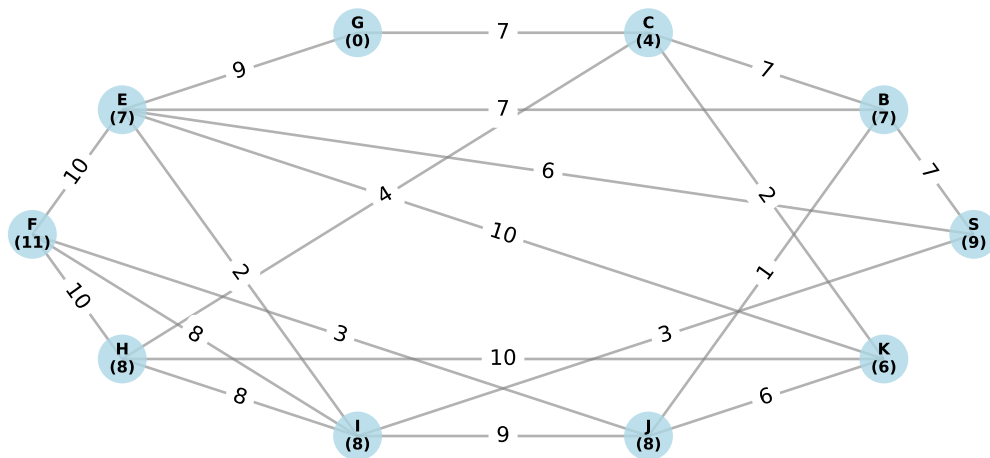
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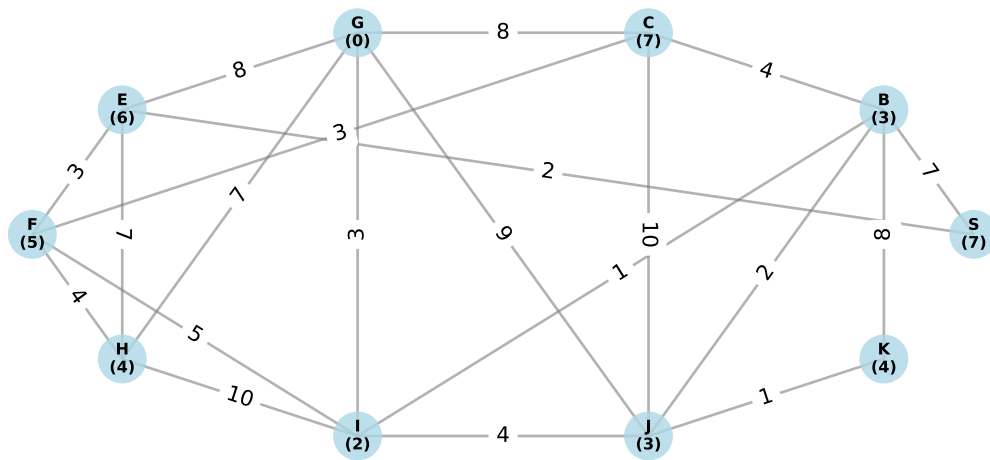
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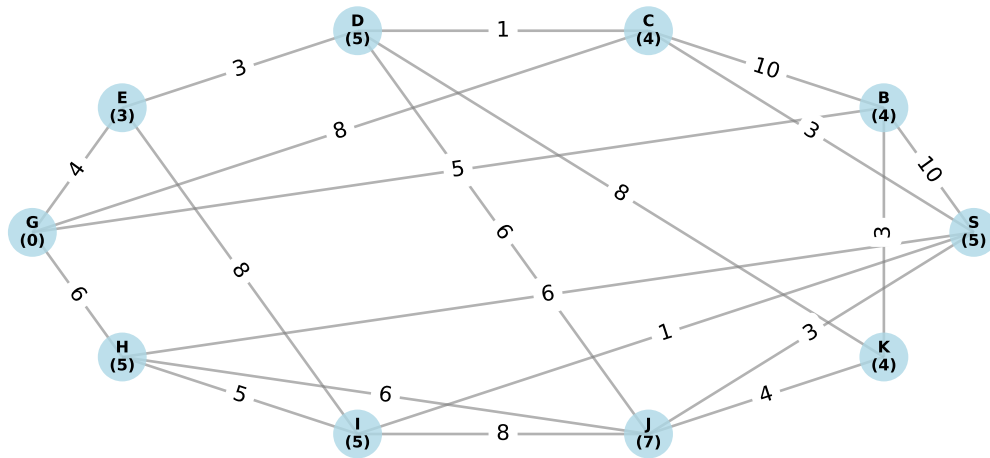
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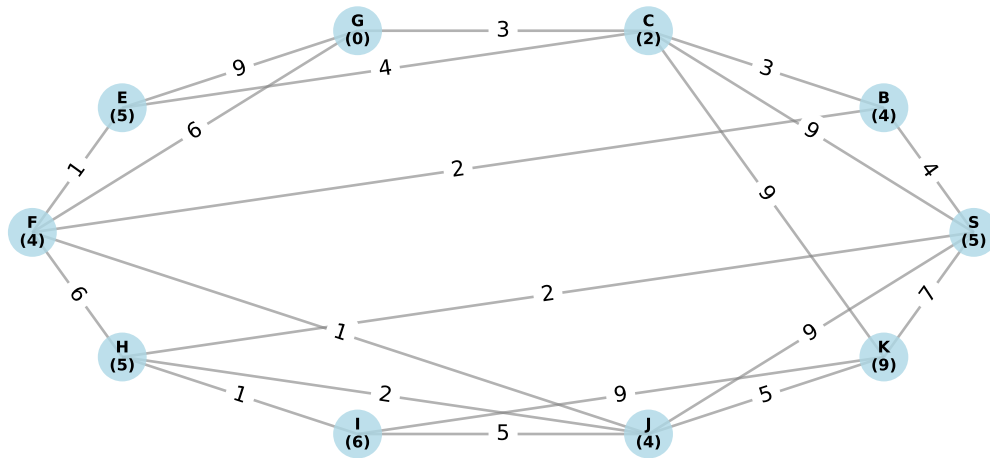
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