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General Questions

Practice Questions

Q1. What is the first step in Dijkstra's algorithm?

A. Select the node with the smallest tentative distance
B. Initialize all distances to infinity
C. Mark all nodes as unvisited
D. Add all edges to the priority queue

Solution: The first step is to initialize the distance to the source node as 0 and all other nodes as infinity.

Q2. How does Dijkstra's algorithm update the tentative distances?

A. By adding the edge weights to the current distances
B. By multiplying the edge weights with the current distances
C. By subtracting the edge weights from the current distances
D. By averaging the edge weights

Solution: Dijkstra's algorithm updates the tentative distances by adding the edge weights to the current distance of the node.

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