



SoulShift - Educational Q&A Platform

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.



