SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. Which algorithm is more suitable for finding the shortest path in a graph with negative weights?

A. Dijkstra's Algorithm
B. Bellman-Ford Algorithm
C. A* Search Algorithm
D. Floyd-Warshall Algorithm

Solution: The Bellman-Ford algorithm is suitable for finding the shortest path in graphs with negative weights.

Q2. Which of the following is a characteristic of Dijkstra's algorithm?

A. It uses depth-first search.
B. It guarantees the shortest path in all cases.
C. It can be used for both directed and undirected graphs.
D. It requires all edge weights to be the same.

Solution: Dijkstra's algorithm can be used for both directed and undirected graphs, provided that all edge weights are non-negative.