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General Questions

Practice Questions

Q1. Which of the following algorithms uses dynamic programming to find the shortest path in a graph?

A. Dijkstra's Algorithm
B. Bellman-Ford Algorithm
C. A* Search
D. Depth First Search

Solution: The Bellman-Ford Algorithm uses dynamic programming to find the shortest path in a graph with negative weights.

Q2. What is the primary purpose of dynamic programming?

A. To solve problems in linear time
B. To optimize recursive algorithms
C. To sort data efficiently
D. To traverse data structures

Solution: The primary purpose of dynamic programming is to optimize recursive algorithms by storing results of subproblems.

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