



## **SoulShift - Educational Q&A Platform**

### **General Questions**

Practice Questions



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**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.*



