



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

### **General Questions**

Practice Questions



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**Q1. Which of the following is a common real-world application of dynamic programming?**

- A. Image compression
- B. Network routing
- C. Stock market prediction
- D. Resource allocation

*Solution: Dynamic programming is often used in resource allocation problems where optimal distribution of limited resources is required.*

**Q2. Which of the following algorithms uses dynamic programming to find the optimal solution?**

- A. Dijkstra's algorithm
- B. Bellman-Ford algorithm
- C. Floyd-Warshall algorithm
- D. Merge sort

*Solution: The Floyd-Warshall algorithm uses dynamic programming to find the shortest paths between all pairs of vertices in a weighted graph.*



