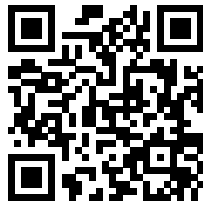




# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



---

**Q1. What is the primary use of dynamic programming in real-world applications?**

- A. Sorting data
- B. Finding shortest paths
- C. Searching in databases
- D. Data compression

*Solution: Dynamic programming is primarily used for optimization problems, such as finding the shortest paths in graphs.*

**Q2. Which algorithm uses dynamic programming to solve the longest common subsequence problem?**

- A. Dijkstra's Algorithm
- B. Floyd-Warshall Algorithm
- C. LCS Algorithm
- D. Merge Sort

*Solution: The Longest Common Subsequence (LCS) problem is solved using a dynamic programming approach.*



