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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.

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