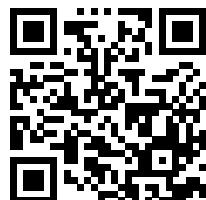




SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. Which of the following techniques is commonly used in dynamic programming to build solutions?

- A. Divide and conquer
- B. Greedy algorithms
- C. Bottom-up approach
- D. Brute force

Solution: The bottom-up approach is commonly used in dynamic programming to build solutions iteratively from smaller subproblems.

Q2. What is the main characteristic of a problem that can be solved using dynamic programming?

- A. It can be solved in linear time
- B. It has optimal substructure
- C. It requires sorting
- D. It can be solved using a greedy approach

Solution: A problem that can be solved using dynamic programming must have optimal substructure, meaning the optimal solution can be constructed from optimal solutions of its subproblems.



