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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.

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