# Quiz-01: Design and Analysis of Algorithms (Ungraded)

9 responses

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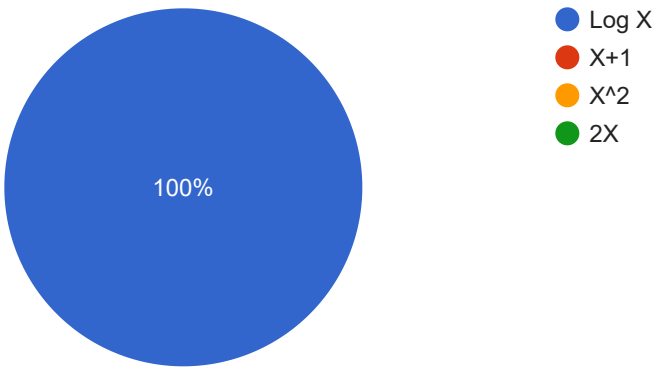
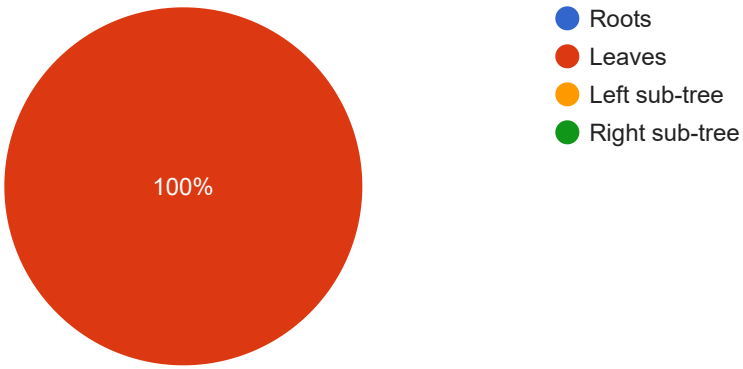
How many bits are needed for standard encoding if the size of the character set is X?

9 responses



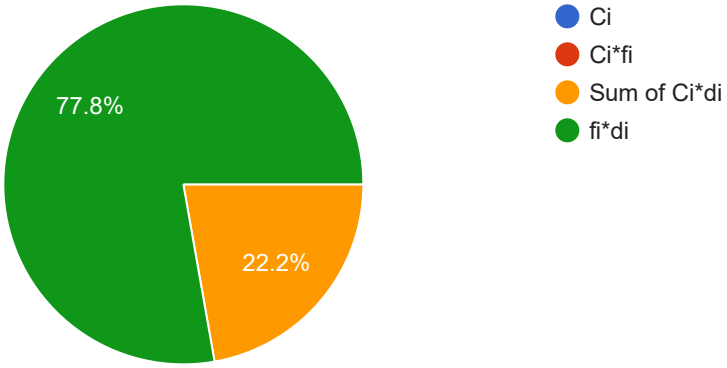

In Huffman coding, data in a tree always occur?

9 responses



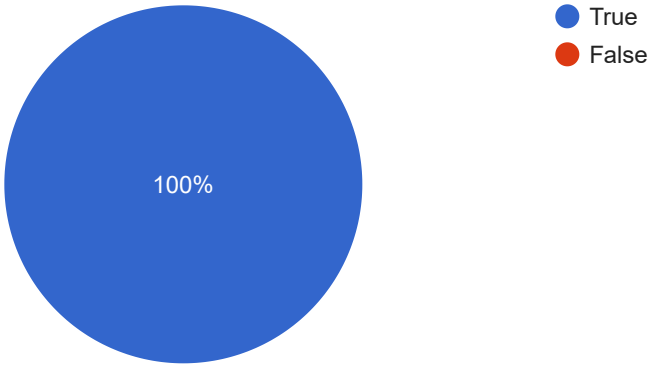
What will be the cost of the code if character ci is at depth di and occurs at frequency fi?

9 responses



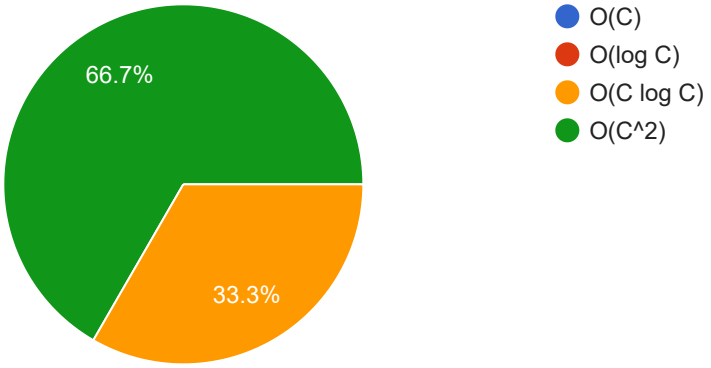

An optimal code will always be present in a full tree.

9 responses



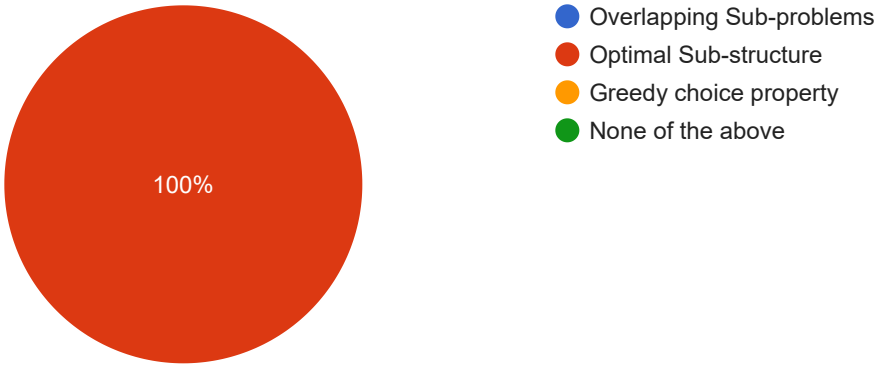
What is the running time of the Huffman algorithm, if its implementation of the priority queue is done using linked lists? Where C is the set of unique chracaters.

9 responses



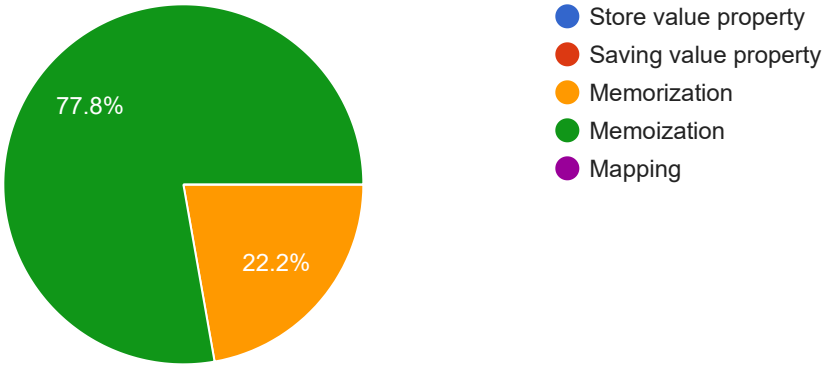

If an optimal solution can be created for a problem by constructing optimal solutions for its subproblems, the problem possesses _____ property.

9 responses



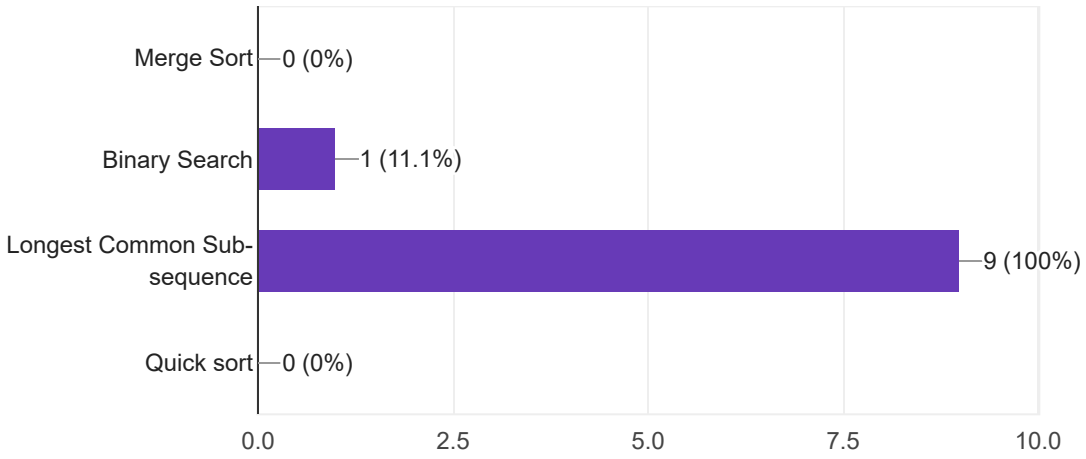
In dynamic programming, the technique of storing the previously calculated values is called _____.

9 responses



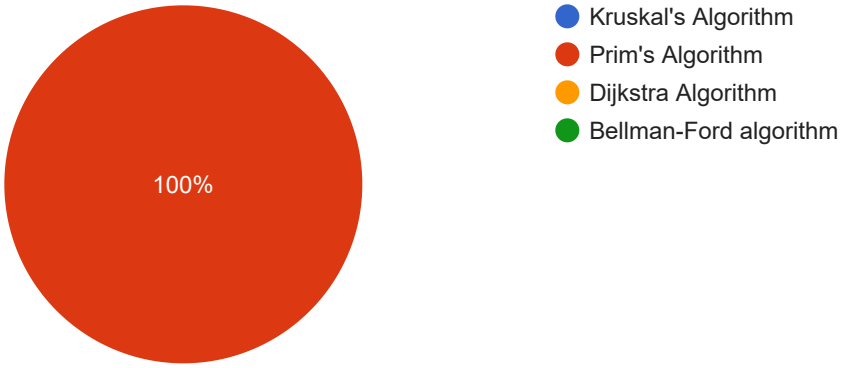

Which of the following problems should be solved using dynamic programming? (Multiple answers might be correct)

9 responses



Rather than build a subgraph one edge at a time ..... builds a tree one vertex at a time.

9 responses




The floyd-warshall all pairs shortest path algorithm computes the shortest paths between each pair of nodes in ..... Where n is the number of nodes and m is the number of edges.

9 responses