

Design and Analysis of Algorithms - Viva Questions with Answers

Q: What is an Algorithm?

A: An algorithm is a finite set of well-defined instructions to solve a particular problem or perform a task.

Q: What are the characteristics of a good algorithm?

A: Correctness, Finiteness, Definiteness, Input/Output, Efficiency (Time and Space).

Q: What is Time Complexity?

A: Time complexity represents the amount of time an algorithm takes to run, as a function of the size of its input.

Q: What is Space Complexity?

A: Space complexity refers to the amount of memory space an algorithm uses relative to the input size.

Q: What is Big O Notation?

A: Big O notation expresses the upper bound of an algorithm's running time, representing the worst-case scenario.

Q: Explain Divide and Conquer technique.

A: It divides the problem into sub-problems, solves them recursively, and combines their solutions. Examples: Merge Sort, Quick Sort, Binary Search.

Q: Explain the Greedy Method.

A: Greedy algorithms make locally optimal choices at each step. Examples: Prim's, Kruskal's, Dijkstra's Algorithm.

Q: What is Dynamic Programming?

A: Dynamic Programming solves problems by breaking them into subproblems and solving each only once, storing the solution. Examples: Knapsack, Floyd-Warshall.

Q: Difference between Dynamic Programming and Greedy Algorithm?

A: Greedy makes local optimal choices; Dynamic Programming uses previously solved subproblems.

Q: What is the Knapsack Problem?

A: An optimization problem to choose items with given weights and values to maximize value without exceeding weight limit. Types: 0/1 and Fractional.

Q: What is Backtracking?

A: Solves problems by trying to build a solution incrementally and removing solutions that fail constraints.

Algorithm Analysis And Design Viva Questions

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Algorithm Analysis And Design Viva Questions:

Algorithm Analysis And Design Viva Questions Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Algorithm Analysis And Design Viva Questions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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