

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

Guillaume Favre



Algorithm Analysis And Design Viva Questions:

Whispering the Strategies of Language: An Emotional Journey through **Algorithm Analysis And Design Viva Questions**

In a digitally-driven earth wherever monitors reign great and immediate connection drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within words frequently go unheard. However, set within the pages of **Algorithm Analysis And Design Viva Questions** a interesting literary treasure sporting with natural feelings, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts visitors on an introspective journey, gently unraveling the veiled truths and profound affect resonating within ab muscles cloth of each word. Within the emotional depths with this touching review, we will embark upon a honest exploration of the book is primary subjects, dissect its charming writing design, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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