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.

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Guillaume Favre

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Design and Analysis of Algorithms Parag H. Dave,2007-09 All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book Design and Analysis of Algorithms Resource description page

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