

# 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

**KJ Lindholm-Leary**



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