

# IMP Topics - **ADSA**

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1. Divide and conquer
2. Merge sort and Quicksort
3. Finding minimum and maximum algorithms.
4. Knapsack Problem
5. Job sequencing using deadlines
6. Optimal storage on tape
7. all pair shortest path
8. 0/1 knapsack
9. Travelling salesman problem
10. Matrix Chain Multiplication
11. The naïve string matching algorithm
12. Rabin Karp algorithm
13. Knuth- Morris-Pratt algorithm
14. Longest Common Subsequence (LCS)
15. Genetic algorithm(GA)
16. Vertex-cover problem
17. Fast Fourier Transform
18. NP-Hard and NP-Complete Problems

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