

■ DSA Roadmap Problem Set with LeetCode Links

Phase 1 – Foundations

- Two Sum
- Best Time to Buy and Sell Stock
- Maximum Subarray
- Move Zeroes
- Valid Anagram
- Longest Substring Without Repeating Characters
- Single Number
- Subarray Sum Equals K

Phase 2 – Intermediate

- Binary Search
- Search in Rotated Sorted Array
- Find First and Last Position of Element in Sorted Array
- Coin Change
- Non-overlapping Intervals
- Subsets
- Permutations
- Sudoku Solver
- Next Greater Element I
- Min Stack

Phase 3 – Dynamic Programming

- Climbing Stairs
- House Robber
- House Robber II
- Longest Increasing Subsequence
- Coin Change II
- Unique Paths
- Minimum Path Sum
- 0/1 Knapsack Problem (classic DP) (Classic problem - not on LeetCode)
- Longest Common Subsequence
- Edit Distance

Phase 4 – Trees & Graphs

- Binary Tree Inorder Traversal
- Binary Tree Level Order Traversal
- Lowest Common Ancestor of a BST
- Diameter of Binary Tree
- Serialize and Deserialize Binary Tree
- Number of Islands
- Clone Graph
- Course Schedule
- Word Ladder
- Graph Valid Tree

Phase 5 – Advanced Topics

- Range Sum Query – Mutable
- Implement Trie
- Word Search II
- KMP Algorithm (classic string matching) (Classic problem - not on LeetCode)
- Rabin-Karp Algorithm (string matching) (Classic problem - not on LeetCode)
- Largest Rectangle in Histogram
- Minimum Spanning Tree (Kruskal/Prim) (Classic problem - not on LeetCode)
- Travelling Salesman Problem (Bitmask DP) (Classic problem - not on LeetCode)