

Target India – DSA Preparation List (1–3 Years Experience)

Arrays & Strings

- Two Sum, Best Time to Buy and Sell Stock
- Kadane's Algorithm (Maximum Subarray)
- Sliding Window problems
- String manipulation and anagrams

Hashing

- Frequency counting using HashMap
- Longest substring without repeating characters
- Two Sum using HashMap

Linked List

- Reverse a linked list
- Detect cycle in linked list
- Merge two sorted linked lists

Stack & Queue

- Valid Parentheses
- Next Greater Element
- Implement Stack/Queue using arrays

Trees

- Binary Tree traversals (Inorder, Preorder, Postorder)
- Height and diameter of a tree
- Lowest Common Ancestor

Graphs

- BFS and DFS
- Detect cycle in graph
- Number of islands

Searching & Sorting

- Binary Search
- Merge Sort and Quick Sort basics
- Search in rotated sorted array

Dynamic Programming (Basics)

- Climbing Stairs
- House Robber
- Longest Common Subsequence (basic understanding)