



## Topic-Wise DSA Interview

### Problem Set



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# Arrays

1. Two Sum
2. Best Time to Buy and Sell Stock
3. Maximum Subarray (Kadane's Algorithm)
4. Merge Intervals
5. Product of Array Except Self
6. 3Sum
7. Container With Most Water
8. Set Matrix Zeroes
9. Rotate Array
10. Missing Number



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## Strings

1. **Longest Substring Without Repeating Characters**
2. **Valid Anagram**
3. **Group Anagrams**
4. **Longest Palindromic Substring**
5. **String to Integer (atoi)**
6. **Reverse Words in a String**
7. **Valid Parentheses**
8. **Implement strStr()**
9. **Decode Ways**
10. **Count and Say**



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## Linked List

1. Reverse Linked List
2. Merge Two Sorted Lists
3. Linked List Cycle
4. Remove Nth Node From End of List
5. Intersection of Two Linked Lists
6. Add Two Numbers
7. Palindrome Linked List
8. Copy List with Random Pointer
9. Reorder List
10. Flatten a Multilevel Doubly Linked List



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## Stack & Queue

1. **Valid Parentheses**
  2. **Min Stack**
  3. **Next Greater Element I**
  4. **Daily Temperatures**
  5. **Evaluate Reverse Polish Notation**
  6. **Implement Queue using Stacks**
  7. **Simplify Path**
  8. **Basic Calculator**
  9. **Largest Rectangle in Histogram**
  10. **Sliding Window Maximum**
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## Binary Tree

1. **Binary Tree Inorder Traversal**
  2. **Maximum Depth of Binary Tree**
  3. **Invert Binary Tree**
  4. **Diameter of Binary Tree**
  5. **Balanced Binary Tree**
  6. **Path Sum**
  7. **Lowest Common Ancestor**
  8. **Serialize and Deserialize Binary Tree**
  9. **Construct Binary Tree from Preorder and Inorder**
  10. **Symmetric Tree**
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## **Binary Search Tree**

1. **Validate Binary Search Tree**
  2. **Insert into a BST**
  3. **Delete Node in a BST**
  4. **Lowest Common Ancestor of a BST**
  5. **Kth Smallest Element in a BST**
  6. **BST Iterator**
  7. **Convert Sorted Array to BST**
  8. **Range Sum of BST**
  9. **Trim a BST**
  10. **Recover Binary Search Tree**
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## Recursion & Backtracking

1. Subsets
  2. Permutations
  3. Combination Sum
  4. Combination Sum II
  5. Letter Combinations of a Phone Number
  6. N-Queens
  7. Word Search
  8. Palindrome Partitioning
  9. Generate Parentheses
  10. Sudoku Solver
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## **Dynamic Programming**

1. Climbing Stairs
  2. House Robber
  3. Coin Change
  4. Longest Increasing Subsequence
  5. Unique Paths
  6. Edit Distance
  7. Maximum Product Subarray
  8. Word Break
  9. Decode Ways
  10. Partition Equal Subset Sum
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## Graphs

1. Number of Islands
  2. Clone Graph
  3. Course Schedule
  4. Pacific Atlantic Water Flow
  5. Rotting Oranges
  6. Word Ladder
  7. Graph Valid Tree
  8. Network Delay Time
  9. Find Eventual Safe States
  10. Number of Connected Components
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## Heap / Priority Queue

1. Kth Largest Element in an Array
2. Top K Frequent Elements
3. Merge K Sorted Lists
4. Find Median from Data Stream
5. Task Scheduler
6. Reorganize String
7. K Closest Points to Origin
8. Smallest Range Covering Elements from K Lists
9. Sliding Window Median
10. Ugly Number II