



Topic-Wise DSA Interview

Problem Set

# **1 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**

## **2 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**

## **3 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**

## **4 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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## **5 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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## **6 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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## **7 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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## **8 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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## **9 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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## **10 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**