# Topic-Wise LeetCode Problem List for CSE Interviews in Bangladesh

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This document provides a curated list of approximately 30 LeetCode problems per topic, tailored for Computer Science and Engineering (CSE) graduates preparing for technical interviews in Bangladesh. Each problem is hyperlinked to its LeetCode page for easy access. The topics are prioritized based on their frequency in interviews at companies like Samsung RD Bangladesh, Brain Station 23, and startups like Pathao. Follow the roadmap: Arrays and Strings, Hash Tables, Linked Lists, Stacks and Queues, Trees and Binary Search Trees, Graphs, and Dynamic Programming.

## 1 Arrays and Strings

1. Two Sum
2. Best Time to Buy and Sell Stock
3. Contains Duplicate
4. Product of Array Except Self
5. Maximum Subarray
6. Maximum Product Subarray — Extended form of kenede's algorithm
7. Find Minimum in Rotated Sorted Array
8. Search in Rotated Sorted Array
9. 3Sum
10. Container With Most Water
11. Longest Substring Without Repeating Characters
12. Longest Palindromic Substring
13. String to Integer (atoi)

14. Regular Expression Matching
15. Merge Intervals
16. Group Anagrams
17. Valid Anagram
18. Valid Parentheses
19. Longest Common Prefix
20. Reverse String
21. First Unique Character in a String
22. Implement strStr()
23. Count and Say
24. Rotate Array
25. Move Zeroes
26. Two Sum II - Input Array Is Sorted
27. Minimum Size Subarray Sum
28. Majority Element
29. Next Permutation
30. Subarray Sum Equals K

## 2 Hash Tables

1. Two Sum
2. Contains Duplicate
3. Single Number
4. Intersection of Two Arrays
5. Happy Number
6. Valid Anagram
7. Group Anagrams
8. Top K Frequent Elements

9. Longest Consecutive Sequence
10. Valid Sudoku
11. Isomorphic Strings
12. Find All Anagrams in a String
13. Subarray Sum Equals K
14. Minimum Window Substring
15. Jewels and Stones
16. Design HashMap
17. Design HashSet
18. First Unique Character in a String
19. Longest Substring Without Repeating Characters
20. Four Sum II
21. Sort Characters By Frequency
22. Minimum Index Sum of Two Lists
23. Longest Word in Dictionary
24. Find Duplicate Subtrees
25. Number of Boomerangs
26. Find All Duplicates in an Array
27. Contiguous Array
28. Longest Palindromic Substring
29. K-diff Pairs in an Array
30. Subarray Sums Divisible by K

# 3 Linked Lists

1. Reverse Linked List
2. Merge Two Sorted Lists
3. Palindrome Linked List

4. Remove Nth Node From End of List
5. Linked List Cycle
6. Linked List Cycle II
7. Add Two Numbers
8. Merge k Sorted Lists
9. Swap Nodes in Pairs
10. Rotate List
11. Remove Duplicates from Sorted List
12. Remove Duplicates from Sorted List II
13. Partition List
14. Reverse Linked List II
15. Middle of the Linked List
16. Intersection of Two Linked Lists
17. Odd Even Linked List
18. Delete Node in a Linked List
19. Split Linked List in Parts
20. Next Greater Node In Linked List
21. Copy List with Random Pointer
22. Flatten a Multilevel Doubly Linked List
23. Insert into a Sorted Circular Linked List
24. Remove Linked List Elements
25. Reverse Nodes in k-Group
26. Add Two Numbers II
27. Sort List
28. Swapping Nodes in a Linked List
29. Design Linked List
30. Merge Nodes in Between Zeros

# 4 Stacks and Queues

1. Valid Parentheses
2. Min Stack
3. Implement Stack using Queues
4. Implement Queue using Stacks
5. Next Greater Element I
6. Next Greater Element II
7. Daily Temperatures
8. Evaluate Reverse Polish Notation
9. Simplify Path
10. Basic Calculator
11. Basic Calculator II
12. Remove All Adjacent Duplicates In String
13. Remove All Adjacent Duplicates in String II
14. Asteroid Collision
15. Decode String
16. Backspace String Compare
17. Design Circular Queue
18. Trapping Rain Water
19. Largest Rectangle in Histogram
20. Online Stock Span
21. Score of Parentheses
22. Minimum Remove to Make Valid Parentheses
23. Design a Stack With Increment Operation
24. Number of Recent Calls
25. Valid Stack Sequences
26. Make The String Great

27. Crawler Log Folder
28. Baseball Game
29. Maximum Frequency Stack
30. Remove Duplicate Letters

# 5 Trees and Binary Search Trees

1. Maximum Depth of Binary Tree
2. Validate Binary Search Tree
3. Symmetric Tree
4. Binary Tree Level Order Traversal
5. Binary Tree Inorder Traversal
6. Binary Tree Preorder Traversal
7. Binary Tree Postorder Traversal
8. Convert Sorted Array to Binary Search Tree
9. Lowest Common Ancestor of a Binary Search Tree
10. Path Sum
11. Path Sum II
12. Minimum Depth of Binary Tree
13. Balanced Binary Tree
14. Same Tree
15. Invert Binary Tree
16. Binary Tree Zigzag Level Order Traversal
17. Construct Binary Tree from Preorder and Inorder Traversal
18. Construct Binary Tree from Inorder and Postorder Traversal
19. Kth Smallest Element in a BST
20. Sum of Left Leaves
21. Binary Tree Right Side View

22. Count Complete Tree Nodes
23. Average of Levels in Binary Tree
24. Find Bottom Left Tree Value
25. Diameter of Binary Tree
26. Merge Two Binary Trees
27. Find Mode in Binary Search Tree
28. Second Minimum Node In a Binary Tree
29. Binary Search Tree Iterator
30. Subtree of Another Tree

# 6 Graphs

1. Number of Islands
2. Course Schedule
3. Course Schedule II
4. Clone Graph
5. Pacific Atlantic Water Flow
6. Rotting Oranges
7. Word Ladder
8. Word Ladder II
9. Surrounded Regions
10. Graph Valid Tree
11. Number of Connected Components in an Undirected Graph
12. Find the Town Judge
13. Accounts Merge
14. Minimum Height Trees
15. Flood Fill
16. Snakes and Ladders

17. All Paths From Source to Target
18. Keys and Rooms
19. Reconstruct Itinerary
20. Evaluate Division
21. Network Delay Time
22. Cheapest Flights Within K Stops
23. Find if Path Exists in Graph
24. Nearest Exit from Entrance in Maze
25. Shortest Path in Binary Matrix
26. Is Graph Bipartite?
27. Possible Bipartition
28. Detonate the Maximum Bombs
29. Redundant Connection
30. Time Needed to Inform All Employees

# 7 Dynamic Programming

1. Climbing Stairs
2. House Robber
3. House Robber II
4. Min Cost Climbing Stairs
5. Longest Increasing Subsequence
6. Longest Common Subsequence
7. Coin Change
8. Coin Change 2
9. Maximum Product Subarray
10. Palindromic Substrings
11. Decode Ways

12. Unique Paths
13. Unique Paths II
14. Minimum Path Sum
15. Partition Equal Subset Sum
16. Best Time to Buy and Sell Stock with Cooldown
17. Word Break
18. Word Break II
19. Longest Valid Parentheses
20. Triangle
21. Maximum Subarray
22. Jump Game
23. Jump Game II
24. Combination Sum IV
25. Target Sum
26. Interleaving String
27. Edit Distance
28. Distinct Subsequences
29. Arithmetic Slices

## Note

The 0/1 Knapsack problem is not available on LeetCode but is commonly tested in Bangladesh interviews. Practice it on platforms like GeeksforGeeks: 0/1 Knapsack Problem.

## Study Plan

- **Weeks 1–3**: Arrays and Strings (solve 3–5 problems daily).
- **Weeks 4–5**: Hash Tables.
- **Weeks 6–7**: Linked Lists.
- **Week 8**: Stacks and Queues.

- **Weeks 9–10**: Trees and Binary Search Trees.
- **Weeks 11–13**: Graphs.
- **Weeks 14–16**: Dynamic Programming.
- Spend 30–45 minutes per problem, reviewing solutions if stuck after 20 minutes. Use LeetCodes Explore section for topic-specific practice.

# Final Notes

These problems are curated based on their relevance to technical interviews in Bangladesh, focusing on easy-to-medium difficulty to match your skill level (20–22 mid-level problems solved). They cover key concepts tested by companies like Samsung RD Bangladesh, Brain Station 23, and startups like Pathao. Track progress using a spreadsheet or Notion, and practice mock interviews on platforms like Pramp. For additional resources, explore local platforms like 10 Minute School or YouTube channels like Anisul Islam.