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Tip: you dont need to solve all questions, try to solve one medium and 1 hard per each pattern and see if others you could understand through them.

Pattern

I. Two Pointer Patterns

Pattern 1: [Collapsing Slides](#)

Pattern 2: Fast & Slow

Pattern 3: Fast Separation

Pattern 4: In-place Array Modification

Pattern 5: String Comparison with special characters

Pattern 6: Expanding From Center

Pattern 7: String Reversal

II. Sliding Window Patterns

Pattern 8: [Fixed Size Slides](#)

Pattern 9: Variable Size

Pattern 10: Monotonic Queue for Max/Min

Pattern 11: Character Frequency Matching

III. Tree Traversal Patterns (DFS & BFS)

Pattern 12: Level Order Traversal

Pattern 13: Recursive Preorder Traversal

Pattern 14: Recursive Inorder Traversal

Pattern 15: Recursive Postorder Traversal

Pattern 16: Lowest Common Ancestor

Pattern 17: Serialization and Deserialization

IV. Graph Traversal Patterns (DFS & BFS)

Pattern 18: DFS - Connected Components / Island Counting

Pattern 19: BFS - Connected Components / Island Counting

Pattern 20: DFS - Cycle Detection

Pattern 21: BFS - Topological Sort(Kahn's Algorithm)

Pattern 22: Deep Copy / Cloning

Pattern 23: Shortest Path

Pattern 24: Shortest Path (Bellman-Ford / BFS+K)

Pattern 25: Union-Find

Pattern 26: Strongly Connected Components (Kosaraju / Tarjan)

Pattern 27: Bridges & Articulation Points (Tarjan low-link)

Pattern 28: Minimum Spanning Tree (Kruskal / Prim / DSU + heap)

Pattern 29: Bidirectional BFS

V. Dynamic Programming (DP) Patterns

Pattern 30: Fibonacci Style

Pattern 31: Kadane's Algorithm for Maximum Subarray

Pattern 32: Coin Change / Unbounded Knapsack Style

Pattern 33: 0/1 Knapsack, Subset Sum Style

Pattern 34: Word Break Style

Pattern 35: Longest Common Subsequence - LCS

Pattern 36: Edit Distance / Levenshtein Distance

Pattern 37: Unique Paths on Grid

Pattern 38: Interval DP

Pattern 39: Catalan Numbers

Pattern 40: Longest Increasing Subsequence

Pattern 41: Stock problems

VI. Heap (Priority Queue) Patterns

Pattern 42: Top K Elements

Pattern 43: Two Heaps for Median Finding

Pattern 44: K-way Merge

Pattern 45: Scheduling - Minimum Cost

VII. Backtracking Patterns

Pattern 46: Subsets (Include/Exclude)

Pattern 47: Permutations

Pattern 48: Combination Sum

Pattern 49: Parentheses Generation

Pattern 50: Word Search / Path Finding in Grid

Pattern 51: N-Queens / Constraint Satisfaction

Pattern 52: Palindromic Partitioning

VIII. Greedy Patterns

Pattern 53: Interval Merging/Scheduling

Pattern 54: Jump Game Reachability/Administration

Pattern 55: Buy/Sell Stock

Pattern 56: Gas Station Circuit

Pattern 57: Task Scheduling

Pattern 58: Sorting Based

IX. Binary Search Patterns

Pattern 59: On Sorted Array/List

Pattern 60: Find Min/Max in Rotated Sorted Array

Pattern 61: On Answer / Condition Function

Pattern 62: Find First/Last Occurrence

Pattern 63: Median / Kth across Two Sorted Arrays

X. Stack Patterns

Pattern 64: Valid Parentheses Matching

Pattern 65: Monotonic Stack

Pattern 66: Expression Evaluation

Pattern 67: Simulation - Backtracking Helper

Pattern 68: Min Stack Design

Pattern 69: Largest Rectangle in Histogram

XI. Bit Manipulation Patterns

Pattern 70: Bitwise XOR - Finding Single/Missing Number

Pattern 71: Bitwise AND - Counting Set Bits (Hamming Weight)

Pattern 72: Bitwise OR - Counting Bits Optimization

Pattern 73: Bitwise Operations - Power of Two/Four Check

XII. Linked List Manipulation Patterns

Pattern 74: In-place Reversal

Pattern 75: Merging Two Sorted Lists

Pattern 76: Addition of Numbers

Pattern 77: Intersection Detection

Pattern 78: Reordering / Partitioning

XIII. Array/Matrix Manipulation Patterns

Pattern 79: In-place Rotation

Pattern 80: Spiral Traversal

Pattern 81: In-place Marking

Pattern 82: Prefix/Suffix Products

Pattern 83: Plus One

Pattern 84: In-place from End

Pattern 85: Cyclic Sort

XIV. String Manipulation Patterns

Pattern 86: Palindrome Check

Pattern 87: Anagram Check

Pattern 88: Roman to Integer Conversion

Pattern 89: String to Integer (atoi)

Pattern 90: Manual Simulation

Pattern 91: String Matching - Naive / KMP / Rabin-Karp

Pattern 92: Repeated Substring Pattern Detection

XV. Design Patterns

Pattern 93: Design (General/Specific)

Pattern 94: Tries

Problems

I. Container With Most Water

11. Container With Most Water

141. Linked List Cycle

18. Remove Nth Node From End of List

26. Remove Duplicates from Sorted Array

844. Backspace String Compare

5. Longest Palindromic Substring

151. Reverse Words in a String

346. Moving Average from Data Stream

3. Longest Substring Without Repeating Characters

239. Sliding Window Maximum

1. TwoSum

102. Binary Tree Level Order Traversal

100. Same Tree

94. Binary Tree Inorder Traversal

104. Maximum Depth of Binary Tree

235. Lowest Common Ancestor of a Binary Search Tree

297. Serialize and Deserialize Binary Tree

130. Surrounded Regions

542. 01 Matrix

207. Course Schedule

210. Course Schedule II

133. Clone Graph

743. Network Delay Time

787. Cheapest Flights Within K Stops

200. Number of Islands

210. Course Schedule II

1162. Critical Connections in a Network

1135. Connecting Cities With Minimum Cost

127. Word Ladder

70. Climbing Stairs

55. Maximum Subarray

322. Coin Change

416. Partition Equal Subset Sum

139. Word Break

1143. Longest Common Subsequence

72. Edit Distance

62. Unique Paths

312. Burst Balloons

95. Unique Binary Search Trees

300. Longest Increasing Subsequence

121. Best Time to Buy and Sell Stock

215. Kth Largest Element in an Array

206. Find Median from Data Stream

23. Merge Sorted Lists

63. Meeting Rooms

17. Letter Combinations of a Phone Number

31. Next Permutation

39. Combination Sum

22. Generate Parentheses

79. Word Search

37. Sudoku Solver

131. Palindrome Partitioning

56. Merge Intervals

45. Jump Game

121. Best Time to Buy and Sell Stock II

134. Gas Station

621. Task Scheduler

455. Assign Cookies

35. Search Insert Position

3. Search in Rotated Sorted Array

410. Split Array Largest Sum

34. Find First and Last Position of Element in Sorted Array

4. Median of Two Sorted Arrays

20. Valid Parentheses

402. Remove K Digits

150. Evaluate Reverse Polish Notation

71. Simplify Path

155. Min Stack

84. Largest Rectangle in Histogram

136. Single Number

191. Number of 1 Bits

338. Counting Bits

231. Power of Two

83. Remove Duplicates from Sorted List

21. Merge Two Sorted Lists

2. Add Two Numbers

160. Intersection of Two Linked Lists

24. Swap Nodes in Pairs

48. Rotate Image

54. Spiral Matrix

73. Set Matrix Zeroes

238. Product of Array Except Self

86. Plus One

68. Merge Sorted Array

41. First Missing Positive

9. Palindrome Number

13. Roman to Integer

49. Group Anagrams

8. String to Integer (atoi)

43. Multiply Strings

28. Find the Index of the First Occurrence in a String

459. Repeated Substring Pattern

146. LRU Cache

235. Implement Stack using Queues

251. Flatten 2D Vector

271. Encode and Decode Strings

363. Design Snake Game

369. Logger Rate Limiter

362. Design Hit Counter

379. De