DSA Zero to Hero - Question List

Level 1: Basic (Day 17)

Topics: Input/Output, Loops, Arrays, Strings

Day 1 (Basics):

1. Print 1 to N
2. Sum of digits
3. Check Prime
4. Factorial
5. Reverse a number

Day 2 (Arrays):

1. Max element
2. Sum of array
3. Even/Odd count
4. Second largest
5. Check sorted

Day 3 (Arrays 2):

1. Left rotate
2. Remove duplicates
3. Move zeros
4. Frequency count
5. Search element

Day 4 (Strings):

1. Palindrome
2. Reverse string
3. Count vowels
4. Remove spaces

5. Frequency of chars

Day 5 (Patterns):

1. Star triangle
2. Number pyramid
3. Hollow square
4. Right angle triangle
5. Pascal triangle

Day 6 (Number Theory):

1. GCD / HCF
2. LCM
3. Prime in range
4. Armstrong number
5. Strong number

Day 7: Recap + Practice 10 mixed questions

Level 2: Intermediate (Day 830)

Topics: Recursion, Searching, Sorting, Hashing

Recursion:

1. Fibonacci
2. Sum of N numbers
3. Factorial (recursive)
4. Tower of Hanoi
5. Power(x,n)

Searching:

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1. Linear Search
2. Binary Search
3. First & Last Occurrence
4. Peak element
5. Search in Rotated Array

Sorting:

1. Bubble Sort
2. Selection Sort
3. Insertion Sort
4. Merge Sort
5. Quick Sort

Hashing:

1. Frequency Counter
2. Find duplicates
3. Count unique
4. Intersection of arrays
5. Longest subarray with sum K

Level 3: Advanced (Day 3160)

Topics: Linked List, Stack, Queue, Trees

Linked List:

1. Reverse LL
2. Detect Cycle
3. Remove duplicates
4. Merge 2 sorted LL
5. Middle of LL

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Stack:

1. Balanced parentheses
2. Min stack
3. Next greater element
4. Infix to postfix
5. Evaluate postfix

Queue:

1. Implement Queue
2. Circular Queue
3. LRU Cache
4. Sliding Window Max
5. First non-repeating char

Tree:

1. Inorder/Pre/Post Traversal
2. Height of tree
3. Count leaf nodes
4. Diameter of tree
5. LCA

Level 4: Pro Level (Day 6190)

Topics: DP, Graph, Backtracking

Backtracking:

1. N-Queens
2. Rat in a maze
3. Sudoku Solver

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4. Word Search

5. Permutations

Graph:

1. BFS & DFS

2. Detect cycle

3. Dijkstra

4. Topological sort

5. Minimum spanning tree

DP:

1. Fibonacci with DP

2. 0/1 Knapsack

3. Longest Common Subsequence

4. Longest Increasing Subsequence

5. Coin Change