

Coding Question Intermediate

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1. Array & String Problems

1. Find Second Largest Element in an array.
2. Check if a String is Palindrome (without using extra space).
3. Find Missing Number in an array of 1 to N (with one missing).
4. Reverse Words in a String without using extra space.
5. Sort an Array of 0s, 1s, and 2s without using extra space.

2. Searching & Sorting

6. Binary Search Implementation (Iterative & Recursive).
7. Find First and Last Occurrence of an element in a sorted array.
8. Sort an Array using QuickSort or MergeSort.
9. Find Kth Smallest Element in an unsorted array.
10. Find Intersection of Two Sorted Arrays.

3. Recursion & Backtracking

11. Find Factorial of a Number using Recursion.
12. Generate All Subsets (Power Set) of a Given Set.
13. Find All Permutations of a String.
14. N-Queens Problem ($N \leq 4$ for simplicity).
15. Find Fibonacci Number using Recursion & DP.

4. Linked List & Stack/Queue

16. Reverse a Linked List (Iterative & Recursive).
17. Find the Middle of a Linked List (without using extra space).
18. Implement Stack using Queues or vice versa.
19. Check for Balanced Parentheses using a Stack.
20. Implement a Queue using a Linked List.