Interview Practice Questions (0-1 Years Experience)

Easy Level

1. Check if a given string is a palindrome
2. Reverse a linked list
3. Count the number of vowels and consonants in a string
4. Check if two strings are anagrams of each other
5. Find the missing number in an array from 1 to n+1
6. What is the difference between array and linked list?
7. Explain the concept of recursion and call stack.
8. What is the difference between let, const, and var in JS?
9. What is a list comprehension in Python?
10. What is the difference between ArrayList and LinkedList in Java?
11. Find the factorial of a given number (using recursion and iteration)
12. Print Fibonacci series up to n terms
13. Check if a number is prime or not
14. Find the maximum and minimum element in an array
15. Find the second largest element in an array
16. Find the sum of digits of a number (e.g., 123 -> 6)
17. Print all even numbers from 1 to N
18. Reverse a string without using built-in functions
19. Check whether a string contains only digits
20. Convert a character to uppercase without using inbuilt functions

Medium Level

1. Two Sum - return indices of two numbers that add up to a target
2. Rotate an array by k steps to the right
3. Find the first non-repeating character in a string
4. Group anagrams from a list of strings
5. Find the length of the longest substring without repeating characters
6. Implement a stack using two queues
7. Detect a cycle in a linked list

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8. Find the kth largest element in an array
9. Explain BFS vs DFS with use-cases
10. Explain time and space complexity of binary search
11. Find the intersection of two arrays
12. Move all zeros to the end of the array
13. Remove duplicates from a sorted array
14. Find the first repeating element in an array
15. Sort an array of 0s, 1s and 2s (Dutch National Flag Problem)
16. Implement a queue using stacks
17. Find the longest common prefix in a list of strings
18. Print all permutations of a string
19. Find all pairs in an array whose sum is equal to a given number
20. Check if parentheses in an expression are balanced

Hard Level

1. Merge two sorted arrays into one sorted array
2. Reverse a linked list (recursive version)
3. Write a program to count frequency of each character in a string
4. What is hashing and how do collisions work?
5. Explain memory management in your chosen language
6. Find the minimum number of platforms required at a railway station
7. Merge two linked lists in sorted order
8. Implement LRU (Least Recently Used) Cache using LinkedHashMap or custom code
9. Detect if a number is a power of 2 using bitwise operations
10. Design a function that returns the median from a stream of integers