

## Core Python & Logic

1. Reverse a string
2. Check if a string is a palindrome
3. Find the second largest number in a list
4. Remove duplicates from a list
5. Count frequency of elements in a dictionary
6. Validate an email address format
7. Validate a password strength (min 8 chars, upper, lower, digit)
8. Find the GCD of two numbers
9. Find the LCM of two numbers
10. Convert a string to title case
11. Find subarray with a given sum
12. Check if two strings are anagrams
13. Find the longest word in a sentence
14. Move all zeros to the end of a list
15. Rotate a list by K steps
16. Check if a string is a pangram
17. Group anagrams from a list of strings
18. Merge two sorted arrays
19. Find all pairs with a given sum
20. Find duplicates in an array
21. Count unique words in a paragraph
22. Find majority element in a list
23. First non-repeating character in a string
24. Reverse a string recursively

25. Calculate factorial using recursion
26. Binary to decimal conversion
27. Decimal to binary conversion
28. Simulate a login system using dict
29. Find the missing number in a list from 1 to N
30. Check if a list is a subset of another