

**1. Find maximum number in an array**

Logic: Assume first element as max and compare with others. Answer: Loop through array and update max.

**2. Reverse a string**

Logic: Traverse string from last index to first and append characters. Answer: Build reversed string using loop.

**3. Palindrome check**

Logic: Reverse string and compare with original. Answer: If equal, it's a palindrome.

**4. Frequency of characters**

Logic: Use dictionary to count characters. Answer: Increment count for each character.

**5. Character with maximum frequency**

Logic: Track max frequency while counting. Answer: Return character with highest count.

**6. Frequency of words in sentence**

Logic: Split sentence and count each word. Answer: Use dictionary for word counts.

**7. First non-repeating character**

Logic: Count frequency, then find first char with count 1. Answer: Two-pass approach.

**8. Longest word in sentence**

Logic: Compare word lengths. Answer: Return word with maximum length.

**9. Check even or odd number**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**10. Find sum of array elements**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**11. Find minimum in array**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**12. Count vowels in a string**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**13. Check prime number**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**14. Factorial of a number**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**15. Fibonacci series**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**16. Remove duplicates from array**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**17. Count digits in a number**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**18. Reverse a number**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**19. Find second largest element**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**20. Check leap year**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**21. Swap two numbers**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**22. Find common elements in two arrays**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**23. Check substring exists**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**24. Count words in sentence**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**25. Convert string to uppercase**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**26. Find length of string without len()**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**27. Check number is positive or negative**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.

**28. Find average of numbers**

Logic: Use basic loops and conditions. Answer: Explain step-by-step in interview.