

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.