

Logical Questions

✓ Basic Level (1–15) – Warm-Up

1. Print numbers from 1 to N
 2. Check if a number is even or odd
 3. Find the sum of first N natural numbers
 4. Find the factorial of a number
 5. Reverse a number
 6. Check if a number is a palindrome
 7. Check if a number is prime
 8. Print all prime numbers up to N
 9. Find the greatest of three numbers
 10. Swap two numbers without using a third variable
 11. Find the sum of digits of a number
 12. Count the number of digits in a number
 13. Print multiplication table of a number
 14. Print Fibonacci series up to N terms
 15. Check if a number is an Armstrong number
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✓ String Logic (16–25)

16. Check if a string is a palindrome
17. Count vowels and consonants in a string
18. Reverse a string without using library functions
19. Remove spaces from a string
20. Count words in a string
21. Find the frequency of each character in a string
22. Replace all spaces in a string with '-'
23. Check if two strings are anagrams
24. Convert lowercase to uppercase (without using built-in)
25. Find the longest word in a sentence

✓ Array Logic (26–35)

- 26. Find largest and smallest element in an array
- 27. Reverse an array
- 28. Copy one array to another
- 29. Count even and odd numbers in an array
- 30. Find the sum of elements in an array
- 31. Remove duplicates from an array
- 32. Sort an array in ascending order
- 33. Find second largest element
- 34. Merge two arrays
- 35. Find common elements between two arrays

✓ Pattern Programs (36–45)

- 36. Print a square star pattern
- 37. Print right-angled triangle pattern
- 38. Print pyramid pattern
- 39. Print inverted triangle pattern
- 40. Number triangle pattern (1, 12, 123...)
- 41. Pascal's Triangle
- 42. Floyd's Triangle
- 43. Diamond pattern
- 44. Left-aligned star pattern
- 45. Hollow square pattern

✓ Intermediate Logic (46–50)

- 46. Reverse a number using recursion
- 47. Find GCD and LCM of two numbers
- 48. Convert decimal to binary

49. Check if a year is a leap year

50. Print Armstrong numbers between 1 and 1000