

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
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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
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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