50 Java For-Loop Only Interview Questions

Basic For-Loop Logic (115)

1. Print numbers from 1 to 100.

2. Print numbers from N to 1 (in reverse).

3. Print all even numbers from 1 to N.

4. Print all odd numbers from 1 to N.

5. Print the sum of first N natural numbers.

6. Print the product (factorial) of first N natural numbers.

7. Count the number of digits in a number.

8. Sum of digits of a number.

9. Product of digits of a number.

10. Reverse a number (e.g., 123 321).

11. Check if a number is a palindrome.

12. Check if a number is a prime.

13. Print all prime numbers from 1 to N.

14. Check if a number is an Armstrong number.

15. Print all Armstrong numbers from 1 to 999.

Pattern Printing (1635)

16. Print a square of stars (e.g., 5x5).

17. Print a right-angled triangle.

18. Print a triangle with numbers:

   1

   1 2

   1 2 3

19. Print a triangle with constant numbers:

   1

   2 2

   3 3 3

20. Print Floyds Triangle.

21. Print a pyramid of stars.

22. Print an inverted triangle.

23. Print a diamond pattern.

24. Print a hollow square.

25. Print a pattern with alternating 1s and 0s.

26. Print a triangle with increasing odd numbers.

27. Print a triangle with increasing even numbers.

28. Print Pascals Triangle (basic format).

29. Print a checkerboard of 1s and 0s.

30. Print a left-aligned triangle with stars.

31. Print a right-aligned triangle.

32. Print an inverted pyramid.

33. Print a half-diamond star pattern.

34. Print a V shape with stars.

35. Print a pattern of numbers decreasing in each row.

Number-Based Logic (3650)

36. Print Fibonacci series up to N terms.

37. Print reverse Fibonacci series.

38. Print factorials of numbers from 1 to N.

39. Find the GCD of two numbers using loop.

40. Find the LCM of two numbers using loop.

41. Check if a number is perfect (sum of factors = number).

42. Print all perfect numbers from 1 to N.

43. Count number of factors of a number.

44. Print all factors of a number.

45. Check if a number is strong (e.g., 145).

46. Print square of numbers from 1 to N.

47. Print cube of numbers from 1 to N.

48. Print numbers divisible by 3 and 5 between 1 to 100.

49. Print sum of series: 1 + 1/2 + 1/3 + ... + 1/N.

50. Print numbers in pattern: 1, 4, 9, 16, ... N.