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import java.util.Scanner;

public class Fibonacci {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the position for Fibonacci number: ");
        int n = scanner.nextInt();
        scanner.close();

        // Non-Recursive (Iterative) Method
        int iterativeResult = fibonacciIterative(n);
        System.out.println("Fibonacci number at position " + n + " (Iterative) is:
" + iterativeResult);

        // Recursive Method
        int recursiveResult = fibonacciRecursive(n);
        System.out.println("Fibonacci number at position " + n + " (Recursive) is:
" + recursiveResult);
    }

    // Non-Recursive (Iterative) Method
    public static int fibonacciIterative(int n) {
        if (n <= 1) {
            return n;
        }

        int first = 0, second = 1, fib = 0;
        for (int i = 2; i <= n; i++) {
            fib = first + second;
            first = second;
            second = fib;
        }
        return fib;
    }

    // Recursive Method
    public static int fibonacciRecursive(int n) {
        if (n <= 1) {
            return n;
        }
        return fibonacciRecursive(n - 1) + fibonacciRecursive(n - 2);
    }
}

```