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import java.util.*;

class GFG {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the nth term of the Fibonacci series ");
        int n = scanner.nextInt();
        int[] memo = new int[n + 1];

        for (int i = 1; i <= n; i++) {
            long fibonacciNumber = fibonacci(i, memo);
            System.out.print(fibonacciNumber + " ");

            if (i == n) {
                if (fibonacciNumber >= 100) {
                    System.out.println("number " + n + "In the Fibonacci series it is" + fibonacciNumber
+ " (>= 100)");
                } else if (fibonacciNumber >= 10) {
                    System.out.println("number " + n + "In the Fibonacci series it is " + fibonacciNumber
+ " (>= 10)");
                } else {
                    System.out.println("number " + n + "In the Fibonacci series it is " +
fibonacciNumber);
                }
            }
        }

        System.out.print("Enter a limit to query its value in the Fibonacci series ");
        int i = scanner.nextInt();
        long ithFibonacciNumber = fibonacci(i, memo);
        System.out.println("number " + i + " In the Fibonacci series it is" + ithFibonacciNumber);

        scanner.close();
    }

    public static int fibonacci(int n, int[] memo) {
        if (memo[n] != 0) {
            return memo[n];
        }
        if (n == 1 || n == 2) {
            return 1;
        } else {

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        memo[n] = fibonacci(n - 1, memo) + fibonacci(n - 2, memo);  
        return memo[n];  
    }  
}  
}
```