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/*
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 */
import java.util.Scanner;
public class Fibonacci {


	public void fibonacciIterative(int n)
	{
		int fib1 = 0;
		int fib2 = 1;
		int fib3;
		if(n == 1) {
			System.out.print(fib1);
		}
		if(n == 2) {
			System.out.print(fib1+" "+fib2);
		}
	    System.out.print(fib1+" "+fib2);
		for(int i=3; i<=n; i++)
		{

			fib3=fib1+fib2;
		 System.out.print(" "+fib3);
		 fib1=fib2;
		 fib2=fib3;
		}

	}


	public int fibonacciRecursive(int n) {
		if(n == 1 || n == 2) {
			return n-1;
		}
		return fibonacciRecursive(n-1) + fibonacciRecursive(n-2);
	}

	public static void main(String args[]) {
		Fibonacci fib = new Fibonacci();
		Scanner s = new Scanner(System.in);

		System.out.println("Iterative version:");
		System.out.print("Enter no of terms to be generated in
fibonacci sequence:");
		int n=Integer.parseInt(s.nextLine());
		fib.fibonacciIterative(n);


		System.out.println("\nRecursive version:");
		System.out.print("Enter no of terms to be generated in
fibonacci sequence:");
		n=Integer.parseInt(s.nextLine());
		System.out.print(fib.fibonacciRecursive(n));

	}
}
```