Fibonacci Number

Problem Code	hw00b_fibo
Running Time Limit	1 sec
Memory Limit	16 mb

Objective

- Be able to read keyboard input
- Be able to compute Fibonacci sequence.

Introduction

Fibonacci number is a sequence of number shown as follow

The first two numbers are 0 and 1 and it is called the 0^{th} Fibonacci number and the 1^{st} Fibonacci number. The remaining number is calculated by adding the previous two numbers together. For example the 2^{nd} Fibonacci number is 1 = 0 + 1, the 3^{rd} Fibonacci number is 2 = 1 + 1, and the 4^{th} Fibonacci number is 3 = 2 + 1.

The Fibonacci number can be written as a recurrent relation $F_i = F_{i-1} + F_{(i-2)}$.

Task

Your task is to read a number N from keyboard and then display the Nth Fibonacci number on screen.

Input

A single integer N $(0 \le N \le 20)$.

Output

The Nth Fibonacci number.

Example

Ex1

Input	Output
4	3

Ex2

Input	Output
10	55