## **Fibonacci**

Time limit: 1 sec

Fibonacci number is a sequence of number which is <0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ...>. We let the i<sup>th</sup> Fibonacci number be denoted by  $F_i$ . The first two numbers,  $F_0$  and  $F_1$  are defined as 0 and 1, respectively. The remaining number is calculated by adding the previous two numbers together, following this recurrent relation  $F_i = F_{i-1} + F_{i-2}$  For example the 2<sup>nd</sup> Fibonacci number,  $F_2$ , is 1 = 0 + 1. Your task is to calculate  $F_N$ 

## Input

Input has exactly one line containing exactly one integer **N** (1  $\leq$  N  $\leq$  45)

## Output

Output exactly one line containing  $F_N$ 

## **Example**

Input	Output
1	1
10	55
17	1597