

A. Fibonacci Numbers

Limits 1s, 512 MB

Given an integer N , print the N -th Fibonacci number.

A Fibonacci series is a series of numbers in which each number is the sum of the two numbers preceding it. For this problem, you can assume that the first two numbers in the series are 1 and 1.

Below you can see the first few numbers of the series:

1, 1, 2, 3, 5, 8, ...

Input

The input will contain an integer N ($0 < N < 50$).

Output

Print the N -th Fibonacci number.

Sample

Input	Output
3	2