

# Problem G: Fibonacci numbers

Time Limit: 1 second

## Description

Everyone has once heard about Fibonacci numbers, which have a lot of applications in mathematics and informatic sciences, and everyone knows the history about the mathematician (Fibonacci) who created the sequence, but no one until some years ago has heard about his spanish brother Fibonacci (yeah, Fibonacci was italian, but his father really enjoyed his life, besides in that time there wasn't acm contest neither TV). Fibonacci also created a sequence, which doesn't have any particular or important application, but it was necessary to increment Fibonacci's ego who felt bad about his brother had a sequence and he didn't. So Fibonacci created the next sequence:

1, 1, 1, 3, 5, 9, 17, 31, 57, ...

So  $\text{Fibonacci}(1) = 1, \text{Fibonacci}(2) = 1$  and  $\text{Fibonacci}(9) = 57$ .

Fibonacci wasn't really a mathematician, so he didn't write a formula to get Fibonacci's numbers, but a monkey can see the sequence in his numbers.

Your problem here is to write a program than read a number  $n$  between 1 and 20 and print the  $\text{Fibonacci}(n)$  number, really easy does not it?, well it had to be a really easy problem for you to not feel so bad about not doing a single problem in this contest and kill your brother like Fibonacci, yeah Fibonacci didnt die for cancer, Fibonacci killed him.

## Input

The input will consist of a number of test cases. Each one is a line containing  $n$  ( $1 \leq n \leq 20$ ). Input is terminated by EOF.

## Output

For each test case, output one line containing the corresponding fibonacci( $n$ ).

Sample input	Sample output
1	1
6	9
9	57

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