G. Fibonacci army

King Cambyses loves Fibonacci numbers. He has several armies. Today he wants to make a new army for himself and he wants the number of men in this army to be the n-th Fibonacci number.

Given n you should find n-th Fibonacci number. The set of Fibonacci numbers start with $f_0 = f_1 = 1$ and for each $i \geq 2$, $f_i = f_{i-1} + f_{i-2}$.

Input
Input contains a single integer n ($1 \leq n \leq 20$).

Output
Write a single integer. The n-th Fibonacci number.

Examples

input
```
2
```
output
```
2
```

input
```
1
```
output
```
1
```