

G. Fibonacci army

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

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