
Fibonacci

Input file: `standard input`
Output file: `standard output`
Time limit: 1 second
Memory limit: 256 megabytes

Given a number N . Print the **Fibonacci** number of N .

Note: In order to create the Fibonacci sequence use the following function:

- $\text{fib}(1) = 0$.
- $\text{fib}(2) = 1$.
- $\text{fib}(n) = \text{fib}(n - 1) + \text{fib}(n - 2)$.

Input

Only one line containing a number N ($1 \leq N \leq 50$).

Output

Print the **Fibonacci** number of N .

Examples

standard input	standard output
1	0
5	3

Note

For more information visit Fibonacci: <https://www.mathsisfun.com/numbers/fibonacci-sequence.html>.