
Fibonacci

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

Given a number N . Print the value of the N_{th} Fibonacci number.

$$F(n) \begin{cases} 0 & \text{if } n = 1 \\ 1 & \text{if } n = 2 \\ F(n-1) + F(n-2) & \text{if } n \geq 3 \end{cases}$$

Note: Solve this problem using recursion.

Input

Only one line containing a number N ($1 \leq N \leq 30$).

Output

Print the value of the N_{th} Fibonacci number.

Example

| standard input | standard output |
|----------------|-----------------|
| 5 | 3 |

Note

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