

$$= 0 , n = 1$$
Fibonacci(n) = 1 , n = 2
Fibonacci(n-1) + Fibonacci(n-2) , n > 2

## Input Format

One line of input, the integer  ${\it N}$ .

Constraints

0 < N <= 40

**Output Format** 

Output one integer, the  $\emph{N}^{th}$  Fibonacci number.

Sample Input

3

Sample Output

1

## **Function Prototype**

The starter code is provided for Scala. The code for accepting the input and displaying the output is provided. You will be provided the input parameter N, and you

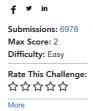
1 of 2 4/19/17, 18:42 PM need to return the  $\emph{N}^{th}$  Fibonacci term.

Sample Input and Output Values for the Fibonacci Series

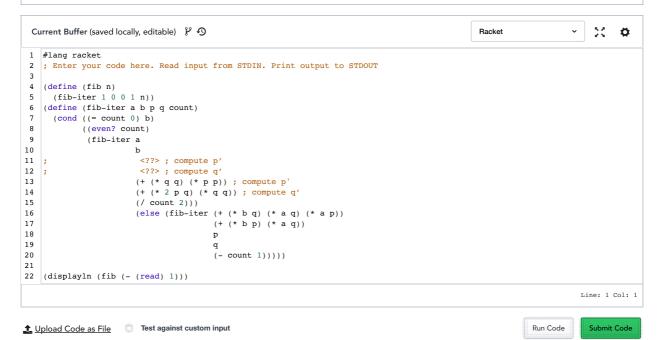
```
fibonacci(3) = (0+1) = 1
fibonacci(4) = (1+1) = 2
fibonacci(5) = (1+2) = 3
```

## Requirements

Simple test cases can be cleared with a purely recursive function exponentially. To clear the more challenging test cases without violating the principles of functional programming, you might benefit from learning about the accumulator technique.



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2 of 2 4/19/17, 18:42 PM