



✓ RecursionPath03 - Fibonacci

Java May'19 DSA Recursion 1 - 2 days 14:52:02

The fibonacci sequence is a famous bit of mathematics, and it happens to have a recursive definition. The first two values in the sequence are 0 and 1 (essentially 2 base cases). Each subsequent value is the sum of the previous two values, so the whole sequence is: 0, 1, 1, 2, 3, 5, 8, 13, 21 and so on. Define a recursive fibonacci(n) method that returns the nth fibonacci number, with n=0 representing the start of the sequence.

Input

On the first line you will be given n.

Output

On the only output line you should print fib(n)

Constraints

$n > 0$

Sample tests

Input

0

Copy

Output

0

Copy

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✓ **Points:** 100
(partial)
⌚ **Time limit:** 0.5s
📄 **Memory limit:**
64M
✍ **Author:**
[stelyan](#)

🏷 **Tags**
Recursion
⬆ **Difficulty**
Easy



1

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Output

1

Copy

Input

7

Copy

Output

13

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? Clarifications

No clarifications have been made at this time.