**Algorithms with Java: Exam**

Please submit your solutions (source code) to all below-described problems in [Judge](https://judge.softuni.org/Contests/Compete/Index/3563#1).

1. **Stairs**

*Stairs, why it does have to be stairs?*

Well, this one is simple…

You need to climb **N** steps on the stairs, the catch is on each step you can either climb one stair or two (by jumping over one), so the question is knowing on each step you can make that choice in how many ways can you climb the stairs.  
… or is it?

## Input

* The input will come from the console on a single line a single number **N** the number of steps on the stairs.

## Output

* The output is a single integer that represents how many ways you can climb the stairs.

## Constraints

* The input will be an integer in the range [0…10 000].

**Hint**: Note that the first step (the one from the ground to the stairs) is also a step made and a choice as well.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3 | 3 |
| 8 | 34 |

“Every step is a first step if it's a step in the right direction.”  
**― Terry Pratchett,**[**I Shall Wear Midnight**](https://www.goodreads.com/work/quotes/9934116)