

Tushar Shivhare (4)

05 Hr **39** Min **36** Sec

Guidelines

Coding Area

Editor | Compile & Run History

Submissions

Feedback Form

Graphs

Coding Area

A B

C

D

Ε

F

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Uncertain Steps

+ Problem Description

Codu is trying to go down stairs from his building to ground floor.

He can go 3 ways:

- 1. Walk 1 step at a time.
- 2. Extend his legs and go 2 steps at a time.
- 3. Jump down 3 steps at a time.

Given n steps, calculate the number of possible ways to reach the ground floor, provided he can jump 3 steps at most once during this process.

That is, he can jump down 3 steps only once, but at any time, if he wishes, while walking down the stairs.

+ Constraints

1 <= N <= 1000000.

+ Input Format

Single Integer denoting the number of Steps, N.

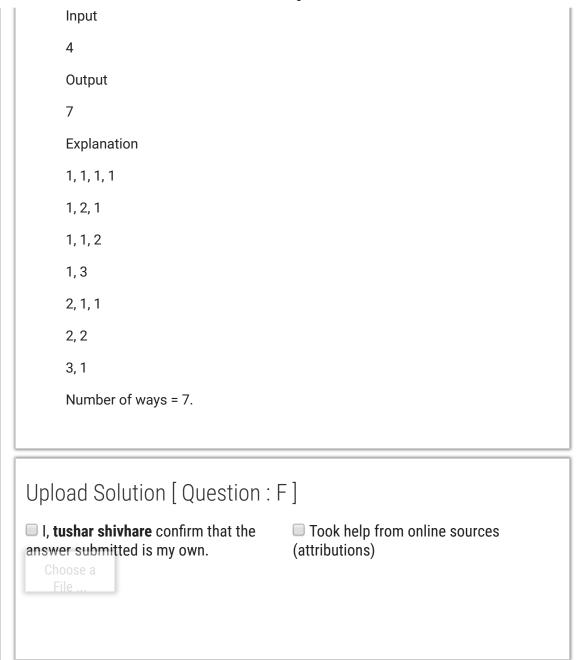
+ Output

Number of ways to reach ground floor.

As the number can be huge, give output modulo 1000000007.

- + Test Case
- + Explanation

Example 1



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