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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

$1 \leq N \leq 1000000$.

+ 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

Input

4

Output

7

Explanation

1, 1, 1, 1

1, 2, 1

1, 1, 2

1, 3

2, 1, 1

2, 2

3, 1

Number of ways = 7.

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