SkillRack

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LACS-PST-S660   **ProgramID- 11166**   **CodeVita**   ☑ **SkillRack**

Uncertain Steps

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 **W** to reach the ground floor, provided he can jump 3 steps. That is, he can jump down 3 steps only once, but at any time, if he wishes, while walking down the stairs.

Note: As the number of ways W can be huge, print W modulo **1000000007.**

Boundary Condition(s):
1 <= N <= 10^6

Input Format:
The first line contains N.

Output Format:
The first line contains W.

Expample Input/Output 1:
Input:
4

Output:
7

Explanation:
The 7 possible ways are given below.
1, 1, 1, 1
1, 1, 2
1, 2, 1
2, 1, 1
2, 2
1, 3
3, 1

Expample Input/Output 2:
Input:
5

Output:
13

Max Execution Time Limit: 1000 millisecs

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85+68=

Proceed to Solve the Program