Problem G

Go Up The Stairs

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

The zoo has a staircase consisting of nnn steps leading from the riverbank to the top of the hill. A rabbit can jump up **1**, **2**, or **3** steps of the staircase. Each time the rabbit goes up this staircase, it follows a sequence of jumps such that each subsequent jump is not less than the previous jump.

Your task: Count the number of different ways the rabbit can ascend the staircase. Two ways of ascending are considered different if at least one jump differs.

Input:

- An only positive integer **N** (**$N \leq 10^6$**).

Output:

- Output a single integer indicating the number of different ways the rabbit can ascend the staircase. If the number of ways exceeds six digits, only output the last six digits of that number.

Example:

INPUT	OUTPUT
6	7