

Reach the Nth point

There are **N** points on the road, you can step ahead by 1 or 2 . If you start from a point 0, and can only move from point **i** to point **i+1** after taking a step of length one, find the number of ways you can reach at point **N**.

Example 1:

Input:

N = 4

Output:

5

Explanation: Three ways to reach at 4th point. They are {1, 1, 1, 1}, {1, 1, 2}, {1, 2, 1} {2, 1, 1}, {2, 2}.

Example 2:

Input: N = 5

Output: 8

Explanation: Three ways to reach at 5th point. They are {1, 1, 1, 1, 1}, {1, 1, 1, 2}, {1, 1, 2, 1}, {1, 2, 1, 1}, {2, 1, 1, 1}{1, 2, 2}, {2, 1, 2}, {2, 2, 1}

Your Task:

You don't need to read or print anything. Your task is to complete the function **nthPoint()** which takes **N** as input parameter and returns the total number of ways **modulo $10^9 + 7$** to reach at **Nth** point.

Expected Time Complexity: O(N)

Expected Space Complexity: O(N)

Constraints:

$1 \leq N \leq 10^5$