PROBLEM

Count ways to N'th Stair

Easy Accuracy: 62.68% Submissions: 49K+ Points: 2

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There are **n** stairs, and a person standing at the bottom wants to reach the top. The person can climb either **1 stair** or **2 stairs** at a time. Count the number of ways, the person can reach the top **(order does not matter)**.

Example 1:

Input:
n = 4
Output:
3
Explanation:
You can reach 4th stair in 3 ways.
3 possible ways are:
1, 1, 1, 1
1, 1, 2
2, 2
Here, note that {1, 1, 2}, {1, 2, 1} and {2, 1, 1} are considered same as their order does not matter.

Example 2:

Input:
n = 5
Output:
3
Explanation:
You may reach the 5th stair in 3 ways.
The 3 possible ways are:
1, 1, 1, 1, 1
1, 1, 1, 2
1, 2, 2

Your Task:
Your task is to complete the function **countWays()** which takes a single argument **n** and returns the answer.

Expected Time Complexity: O(n)
Expected Auxiliary Space: O(n)

Constraints:
$1 <= N <= 10^6$

CODE

```
#User function Template for python3


class Solution:

    #Function to count number of ways to reach the nth stair
    #when order does not matter.
    def countWays(self, n):

        mod = 1000000007
        return n//2+1
```