Climbing Stairs

Student name :	I51496
Student email / username :	2103a51496@sru.edu.in
Class name :	III_DAA_I_23-24
Submitted on :	Aug 11, 2023 02:26 pm
Earned Score :	Pending
Earned Marks :	Pending

The Young Talented Guy **Mr. Ayush** wants to **climb a staircase**. It takes n steps to reach the top.
Each time he can either climb 1 or 2 steps. In how many distinct ways can Ayush can reach to the top?
 Input:
first line contains 1 value, the number of Stairs
Output:
The total number ways that Ayush can climb n stairs.
Eg:
Input
2
Output
2
Explanation: There are two ways to climb to the top.
1. 1 step + 1 step
2. 2 steps

===

solution.c

===

```
#include
int solution(int i)
{
    //write your code here
    if(i<3){
     return i;
    }
    else{
    return solution(i-1) + solution(i-2); // counting the number of ways
    }

}

//Your program will be evaluated by this main method and several test cases.
int main()
{
    int N,i;
    scanf("%d",&N); // giving input as N
    int sum =solution(N); // calling funtion
```

```
    printf("%d",sum);
}
```

Test Cases

Test Cases	Status
Test Case 1	Pass