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70. Climbing Stairs

Easy 4960 154 Add to List Share

You are climbing a stair case. It takes *n* steps to reach to the top.

Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

Example 1:

```
Input: 2
Output: 2
Explanation: There are two ways to climb to the top.
1. 1 step + 1 step
2. 2 steps
```

Example 2:

```
Input: 3
Output: 3
Explanation: There are three ways to climb to the top.
1. 1 step + 1 step + 1 step
2. 1 step + 2 steps
3. 2 steps + 1 step
```

Constraints:

- `1 <= n <= 45`

Accepted 771,611 Submissions 1,606,593

Seen this question in a real interview before? Yes No

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C++ Autocomplete

```cpp
class Solution {
public:
    unordered_map<int,int> hmap={{0,0},{1,1},{2,2}};

    int climbStairs(int n) {
        if(hmap.find(n)!=hmap.end())
            return hmap[n];
        if(n==0)
            return 0;
        if(n==1)
            return 1;
        if(n==2)
            return 2;

        int ans=climbStairs(n-1)+climbStairs(n-2);
            hmap[n]=ans;
        return ans;

    }
};
```

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