70. Climbing Stairs

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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?

Note: Given *n* will be a positive integer.

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C++

```cpp
class Solution {
public:
    int climbStairs(int n) {
        if(n==1) return 1;
        if(n==2) return 2;
        int dp[2];
        dp[0] = 1;
        dp[1] = 2;
        for(int i=3;i<=n;i++){
            int temp = dp[0] + dp[1];
            dp[0] = dp[1];
            dp[1] = temp;
        }
        return dp[1];
    }
};
```

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