

#15 Days of Coding Challenge

#Day 10

### Climbing Stairs

#Leetcode 70

Solution:

```
class Solution {
public:
    int climbStairs(int n) {
        vector<int> dp(n + 1);
        dp[0] = 1;
        dp[1] = 1;
        for (int i = 2; i <= n; ++i)
            dp[i] = dp[i - 1] + dp[i - 2];
        return dp[n];
    }
};
```

Time Complexity:  $O(n)$

Space Complexity:  $O(1)$