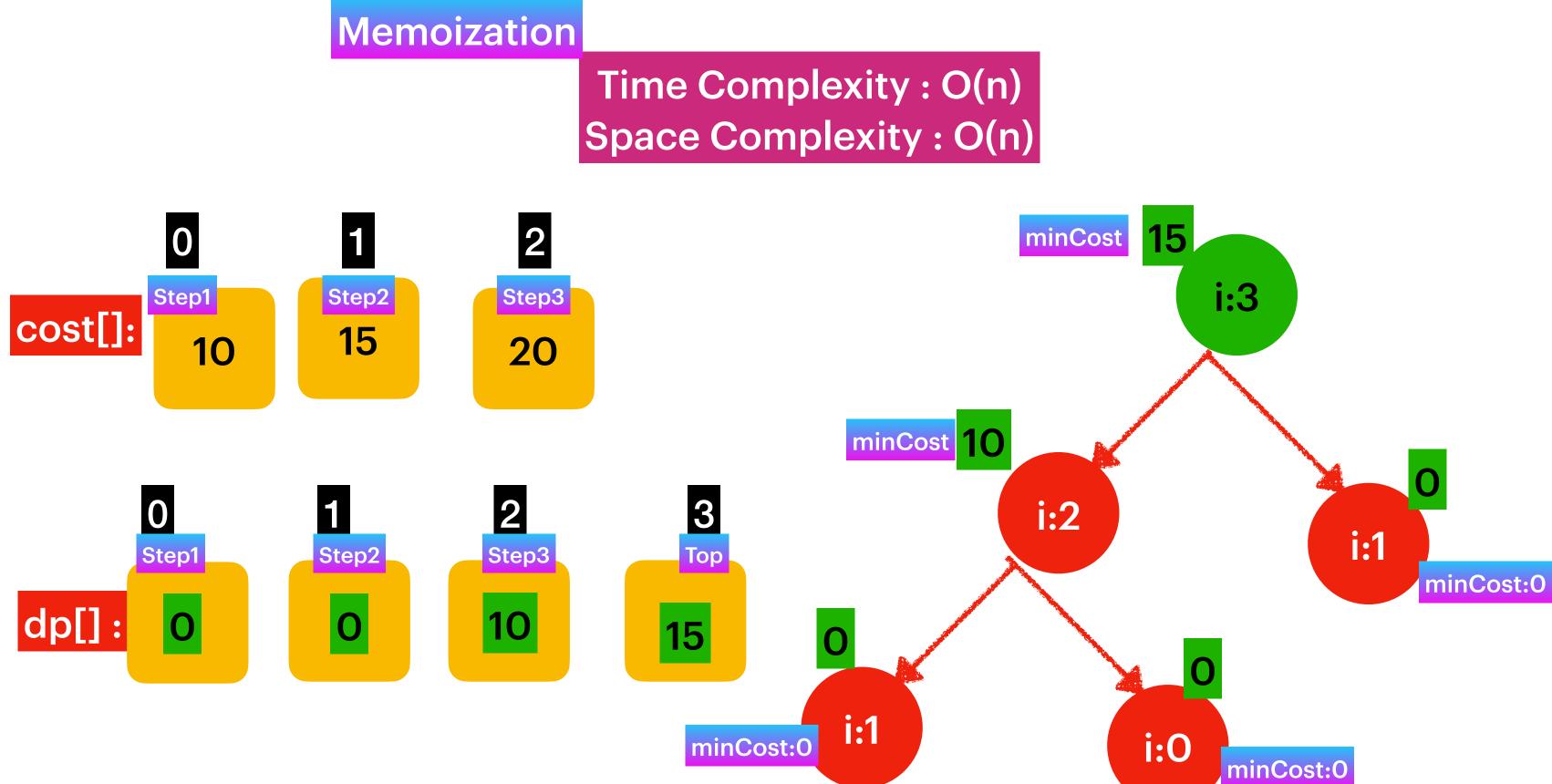
Min Cost Climbing Stairs



Recurrence Relation —->

We can reach ith step either from i-1 or i-2 steps.

dp[i] = Math.min(cost[i-1] + dp[i-1] , cost[i -2] + dp[i-2])

Bast Check :
 if(i <= 1)
 {
 return 0;
 }
}</pre>

198. House Robber

Medium ௴ 11892 ♀ 255 ♡ Add to List ௴ Share

You are a professional robber planning to rob houses along a street. Each house has a certain amount of money stashed, the only constraint stopping you from robbing each of them is that adjacent houses have security systems connected and it will automatically contact the police if two adjacent houses were broken into on the same night.

Given an integer array nums representing the amount of money of each house, return the maximum amount of money you can rob tonight without alerting the police.

Example 1:

```
Input: nums = [1,2,3,1]
Output: 4
Explanation: Rob house 1 (money = 1) and then rob house 3 (money = 3).
Total amount you can rob = 1 + 3 = 4.
```

Example 2:

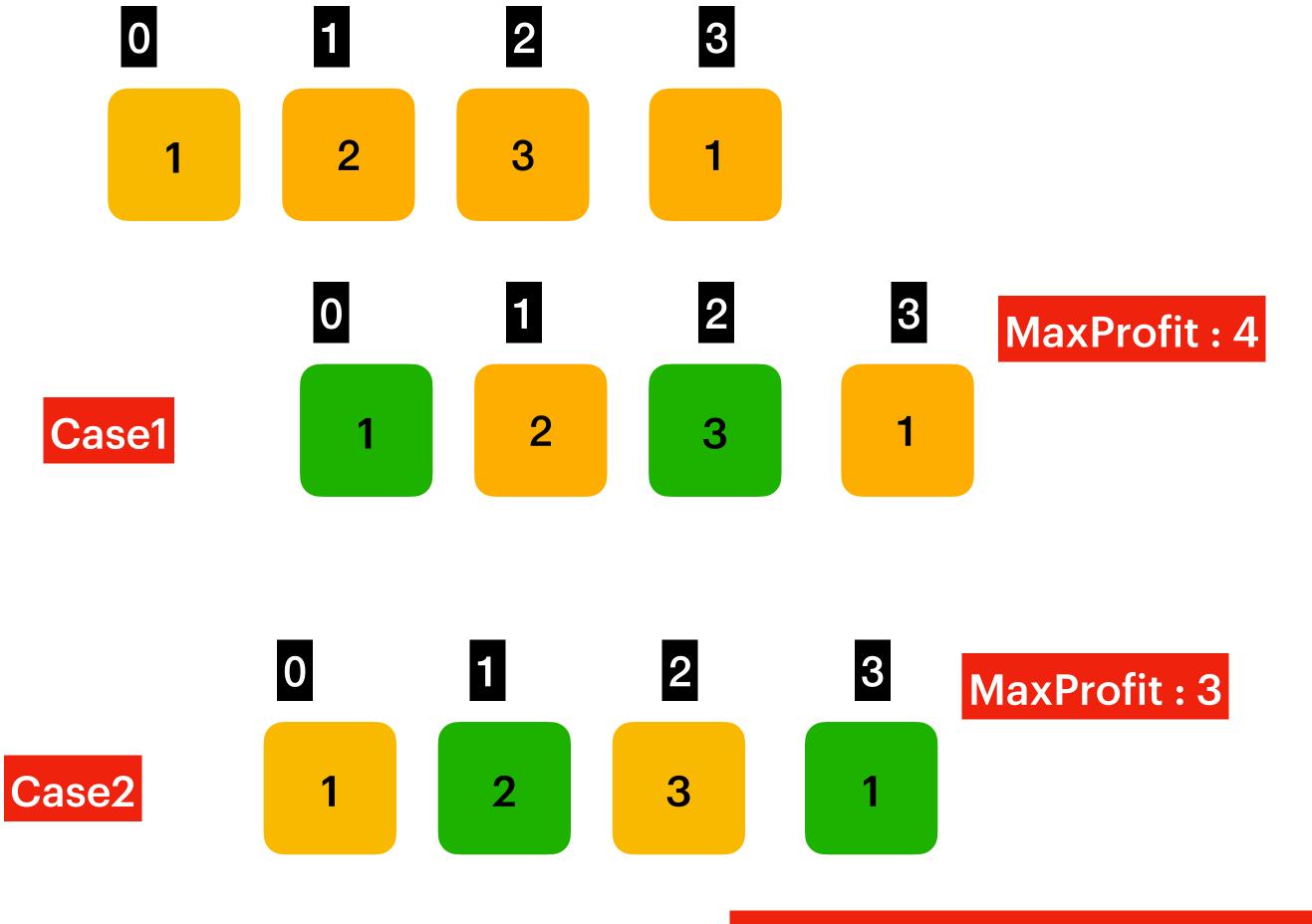
```
Input: nums = [2,7,9,3,1]
Output: 12
Explanation: Rob house 1 (money = 2), rob house 3 (money = 9) and rob house 5 (money = 1).
Total amount you can rob = 2 + 9 + 1 = 12.
```

Constraints:

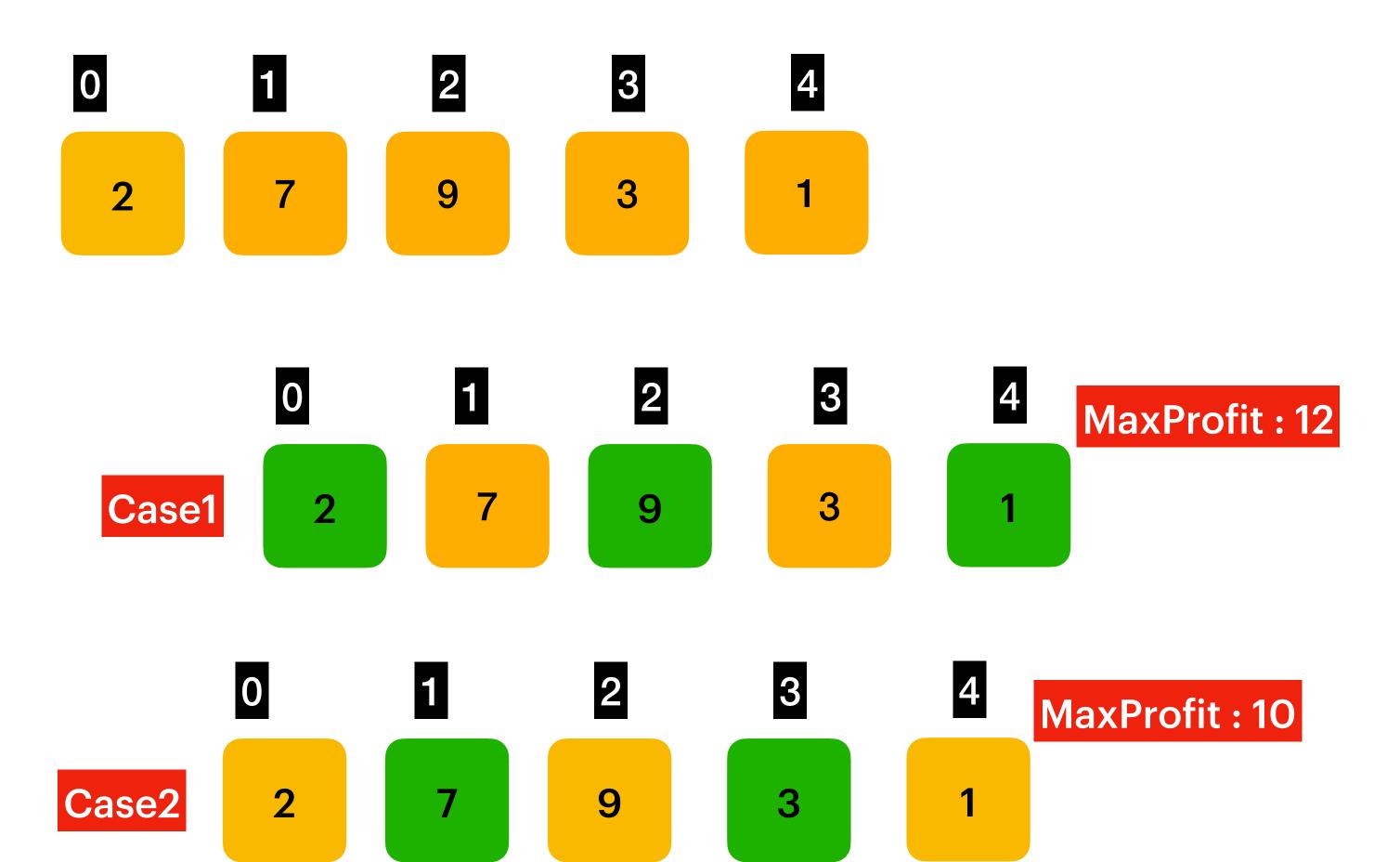
- 1 <= nums.length <= 100
- 0 <= nums[i] <= 400

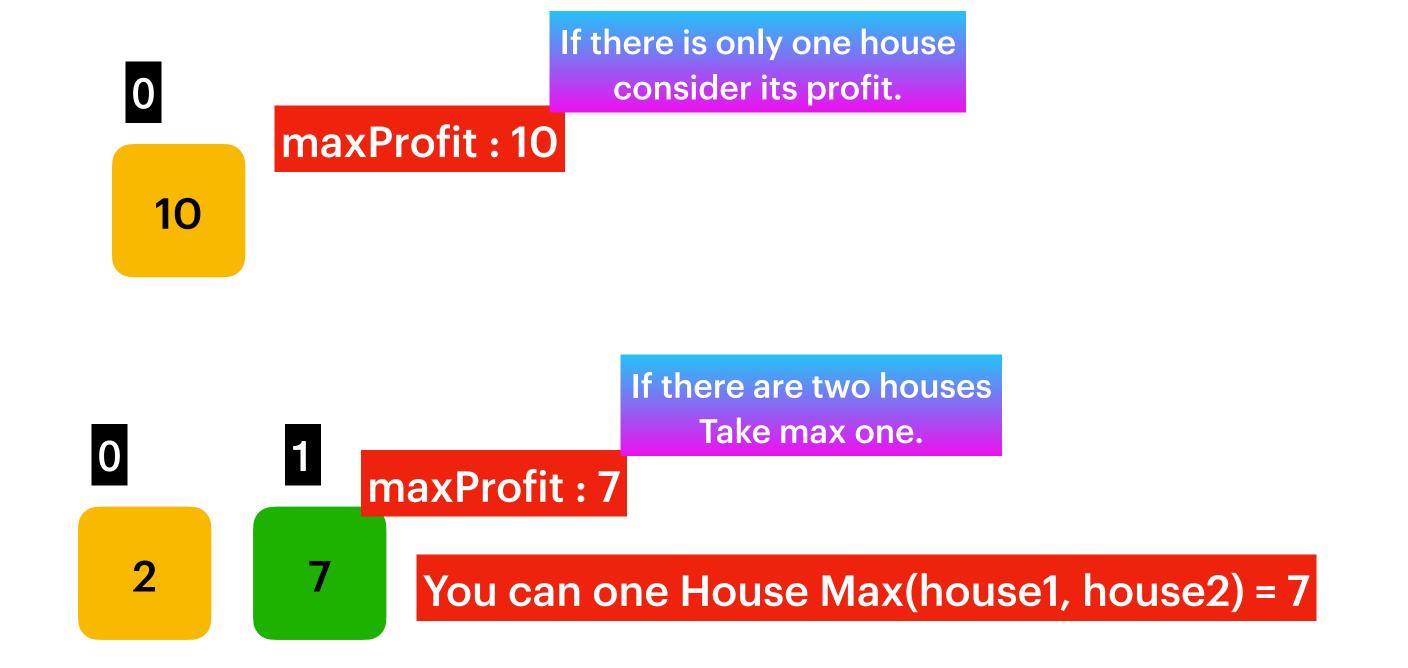
Constraint: You can not rob from adjacent houses

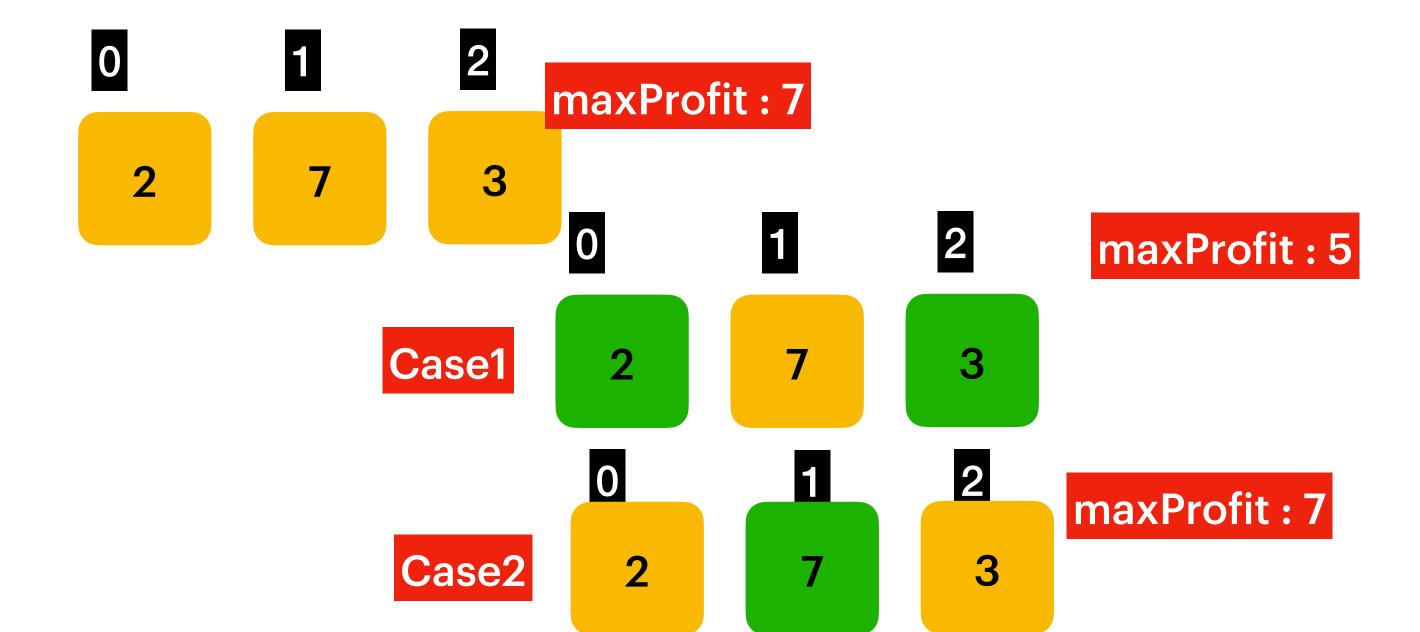
Get the Max Profit without altering the police

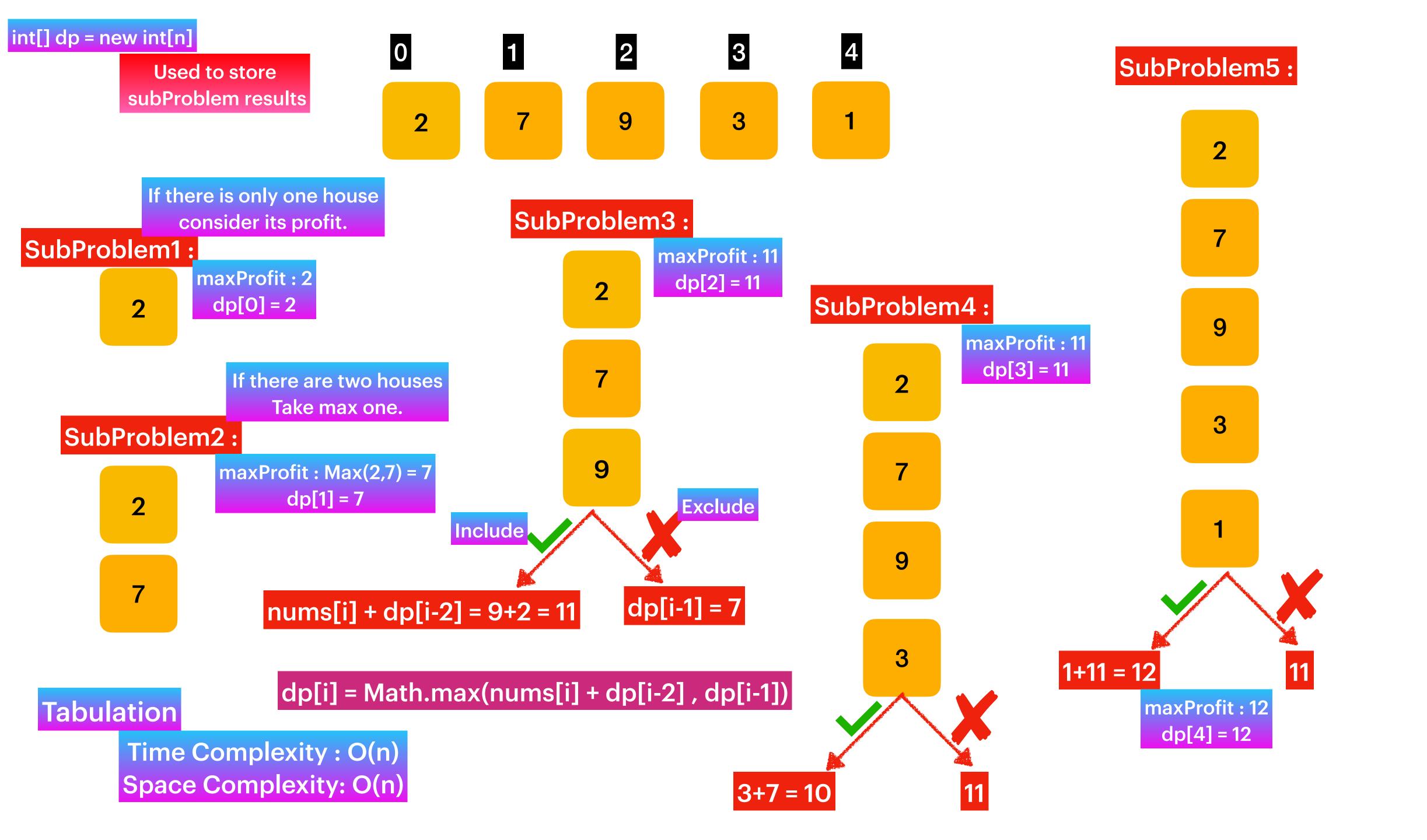


Should return Max Profit i.e 4

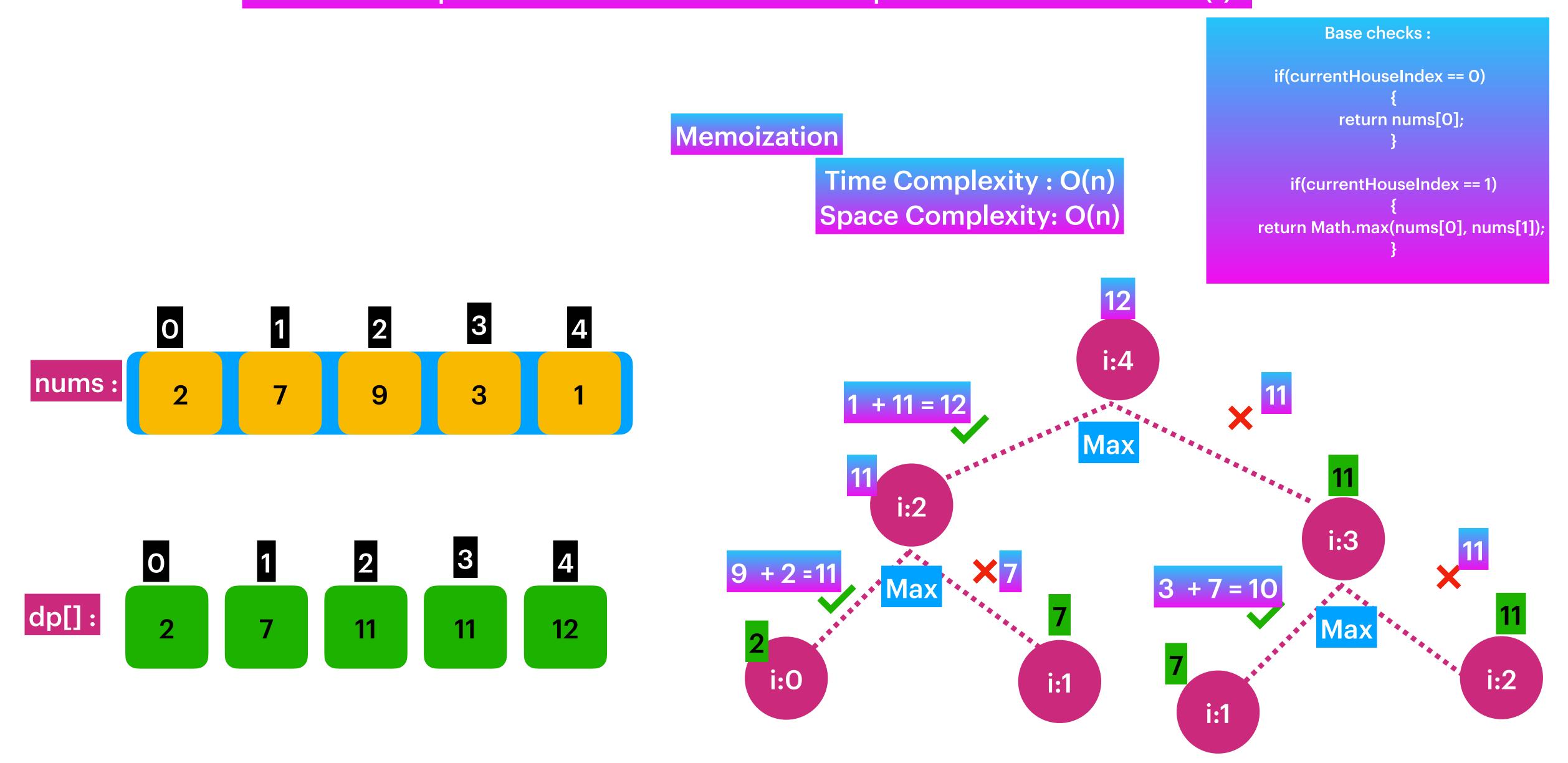








Can we improve on Space on Tabulation Approach,
Yes we just need previous two subproblem results to solve current subproblem.
So we can swap between two variables. So that Space would be constant O(1).



For Practice

213. House Robber II

Medium ☐ 5290 ☐ 91 ☐ Add to List ☐ Share

You are a professional robber planning to rob houses along a street. Each house has a certain amount of money stashed. All houses at this place are **arranged in a circle**. That means the first house is the neighbor of the last one. Meanwhile, adjacent houses have a security system connected, and **it will automatically contact the police if two adjacent houses were broken into on the same night**.

Given an integer array nums representing the amount of money of each house, return the maximum amount of money you can rob tonight without alerting the police.

Example 1:

Input: nums = [2,3,2]
Output: 3
Explanation: You cannot rob house 1 (money = 2) and then rob house 3
(money = 2), because they are adjacent houses.

Example 2:

```
Input: nums = [1,2,3,1]
Output: 4
Explanation: Rob house 1 (money = 1) and then rob house 3 (money = 3).
Total amount you can rob = 1 + 3 = 4.
```

Example 3:

Input: nums = [1,2,3]
Output: 3

Constraints:

- 1 <= nums.length <= 100
- 0 <= nums[i] <= 1000

