



198. House Robber

Solved 

Medium

 Topics

 Companies

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.

```
class Solution {
    func rob(_ nums: [Int]) -> Int {
        if(nums.count == 1) {
            return nums[0]
        }

        if(nums.count == 2) {
            return max(nums[0],nums[1])
        }

        var dp = Array(repeating:0,count:nums.count)
        dp[0] = nums[0]
        dp[1] = max(nums[1],nums[0])
```

```
    for i in 2..<nums.count {  
        dp[i] = max((nums[i]+dp[i-2]),dp[i-1])  
    }  
  
    return dp[nums.count-1]  
}  
}
```