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LeetCode Coding Challenge + GIVEAWAY!

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Premium

Description

Solution

Discuss (999+)

Submissions

C++

198. House Robber

Medium

9558

229

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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:

- $1 \leq \text{nums.length} \leq 100$
- $0 \leq \text{nums}[i] \leq 400$

Accepted 904,700

Submissions 1,991,507

Seen this question in a real interview before?

Yes

No

```
1 class Solution {
2 public:
3     int rob(vector<int>& nums) {
4         int n = nums.size();
5         return 0;
6     }
7     int robRange(vector<int>& nums, int start, int end) {
8         if (start > end) return 0;
9         int dp[n+1];
10        dp[start] = 0;
11        dp[start+1] = nums[start];
12        for (int i = start+2; i <= end; i++) {
13            dp[i] = max(dp[i-2] + nums[i-1], dp[i-1]);
14        }
15        return dp[end+1];
16    }
17    int rob(vector<int>& nums) {
18        return max(robRange(nums, 0, nums.size()-1), robRange(nums, 1, nums.size()-1));
19    }
20 }
```

Your previous code was

Problems

Pick One

< Prev

198/2092

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Contribute

Run C++