Description Solution Discuss (999+) Submissions

Easy 5579 167 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 system connected and **it will automatically contact the police if two adjacent houses were broken into on the same night**.

Given a list of non-negative integers representing the amount of money of each house, determine 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:

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

Accepted 596,423 Submissions 1,404,258

Seen this question in a real interview before? Yes No

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```cpp
class Solution {
public:

    int rob(vector<int>& nums) {
        if(nums.size()==0)
            return 0;
        if(nums.size()==1)
            return nums[0];
        int r1=nums[0];
        int r2=max(nums[0],nums[1]);
        for(int i=2;i<nums.size();i++){
            int temp=max(r1+nums[i],r2);
            r1=r2;
            r2=temp;
        }
        return max(r1,r2);
    }
};
```

Your previous code was restored from your local storage. Reset to default

Testcase Run Code Result Debugger

Accepted Runtime: 0 ms

Your input [1,2,3,1]

Output 4 Diff

Expected 4

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Console How to create a testcase Run Code Submit