198. House Robber

Medium 11479 248 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`

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```java
class Solution {
    int[] memo;
    public int rob(int[] nums) {
        memo = new int[nums.length + 1];
        Arrays.fill(memo, -1);
        return rob(nums, nums.length - 1);
    }

    private int rob(int[] nums, int i) {
        if (i < 0) {
            return 0;
        }
        if (memo[i] >= 0) {
            return memo[i];
        }
        int result = Math.max(rob(nums, i - 2) + nums[i], rob(nums, i - 1));
        memo[i] = result;
        return result;
    }
}
```

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