

337. House Robber III

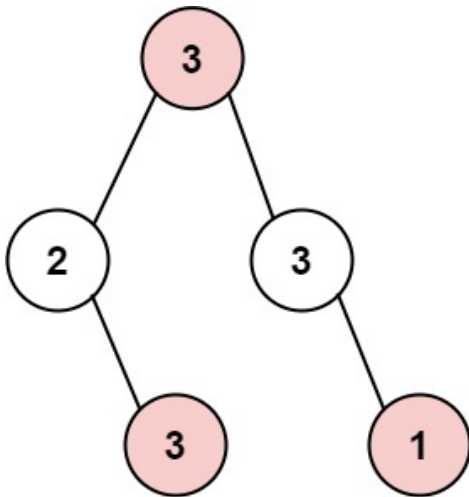
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The thief has found himself a new place for his thievery again. There is only one entrance to this area, called `root`.

Besides the `root`, each house has one and only one parent house. After a tour, the smart thief realized that all houses in this place form a binary tree.

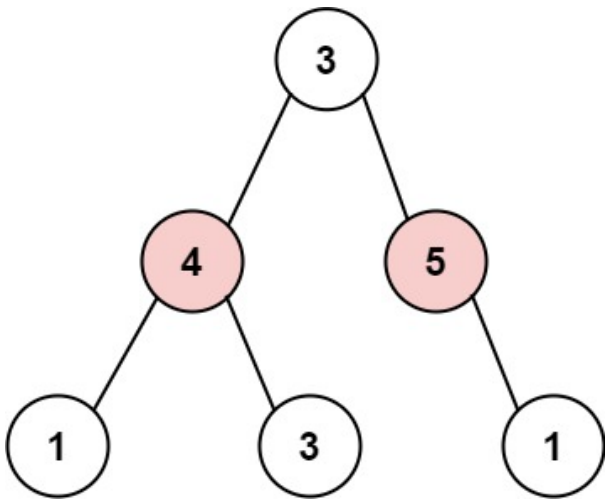
Given the `root` of the binary tree, return *the maximum amount of money the thief can rob **without alerting the police***.

Example 1:



Input: `root = [3,2,3,null,3,null,1]`
Output: 7
Explanation: Maximum amount of money the thief can rob = 3 + 3 + 1 = 7.

Example 2:



Input: `root = [3,4,5,1,3,null,1]`
Output: 9
Explanation: Maximum amount of money the thief can rob = 4 + 5 = 9.

Constraints:

- The number of nodes in the tree is in the range $[1, 10^4]$.
- $0 \leq \text{Node.val} \leq 10^4$

Seen this question in a real interview before? 1/4

☐ Yes ☐ No

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