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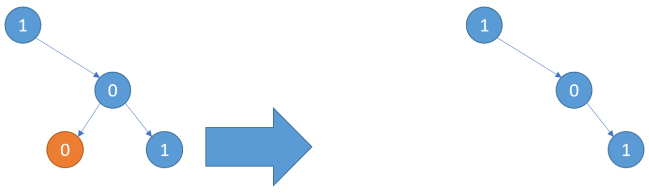
814. Binary Tree Pruning

Medium 1923 61 Add to List Share

Given the `root` of a binary tree, return *the same tree where every subtree (of the given tree) not containing a* `1` *has been removed.*

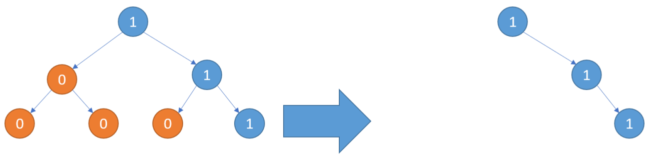
A subtree of a node `node` is `node` plus every node that is a descendant of `node`.

Example 1:



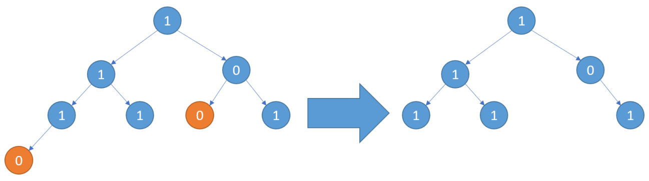
```
Input: root = [1,null,0,0,1]
Output: [1,null,0,null,1]
Explanation: 
Only the red nodes satisfy the property "every subtree not containing a 1".
The diagram on the right represents the answer.
```

Example 2:



```
Input: root = [1,0,1,0,0,0,1]
Output: [1,null,1,null,1]
```

Example 3:



```
Input: root = [1,1,0,1,1,0,1,0]
Output: [1,1,0,1,1,null,1]
```

Constraints:

- The number of nodes in the tree is in the range `[1, 200]`.
- `Node.val` is either `0` or `1`.

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Seen this question in a real interview before?

Yes No

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```java
/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *     int val;
 *     TreeNode left;
 *     TreeNode right;
 *     TreeNode() {}
 *     TreeNode(int val) { this.val = val; }
 *     TreeNode(int val, TreeNode left, TreeNode right) {
 *         this.val = val;
 *         this.left = left;
 *         this.right = right;
 *     }
 * }
 */
class Solution {
    public TreeNode pruneTree(TreeNode root) {
        
    }
}
```

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