1379. Find a Corresponding Node of a Binary Tree in a Clone of That Tree

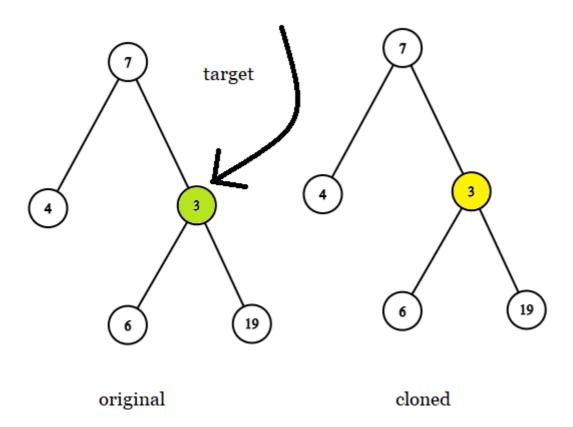
Given two binary trees original and cloned and given a reference to a node target in the original tree.

The cloned tree is a copy of the original tree.

Return a reference to the same node in the cloned tree.

Note that you are **not allowed** to change any of the two trees or the target node and the answer **must be** a reference to a node in the cloned tree.

Example 1:



Input: tree = [7,4,3,null,null,6,19], target = 3
Output: 3
Explanation: In all examples the original and cloned trees are shown. The target node is a green node from the original tree. The answer is the yellow node from the cloned tree.

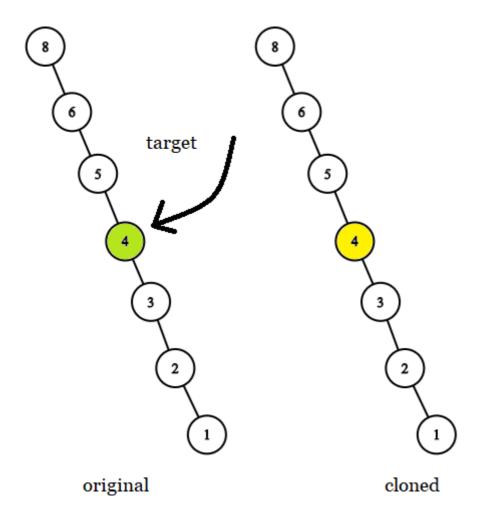
Example 2:



original cloned

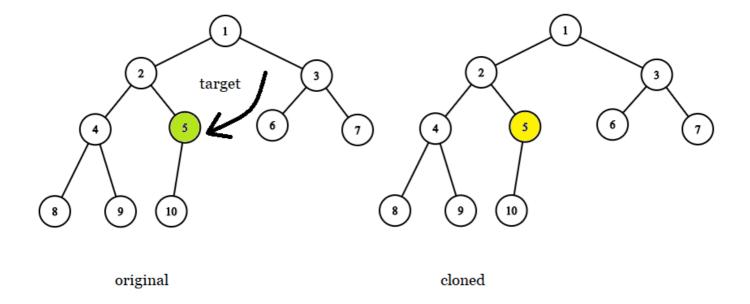
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Input: tree = [7], target = 7
Output: 7
```

Example 3:



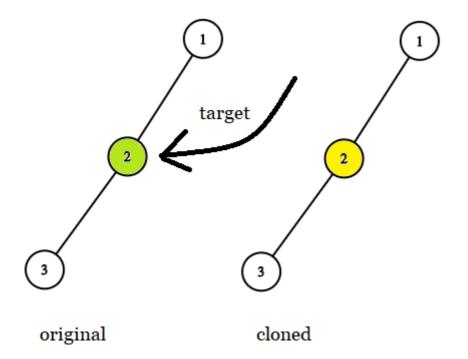
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Input: tree = [8,null,6,null,5,null,4,null,3,null,2,null,1], target = 4
Output: 4
```

Example 4:



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Input: tree = [1,2,3,4,5,6,7,8,9,10], target = 5
Output: 5
```

Example 5:



```
Input: tree = [1,2,null,3], target = 2
Output: 2
```

Constraints:

- The number of nodes in the tree is in the range [1, 10⁴].
- The values of the nodes of the tree are unique.
- target node is a node from the original tree and is not null.

Follow up: Could you solve the problem if repeated values on the tree are allowed?

```
class Solution:
    def getTargetCopy(self, original: TreeNode, cloned: TreeNode, target:
TreeNode) -> TreeNode:
    if original is None and cloned is None:
        return None
    if original==target:
        return cloned
    left = self.getTargetCopy(original.left,cloned.left,target)
    right = self.getTargetCopy(original.right,cloned.right,target)
    return left or right
```