

Description

Solution

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285. Inorder Successor in BST

Medium

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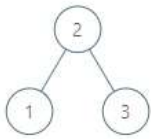
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Given the `root` of a binary search tree and a node `p` in it, return the *in-order successor* of that node in the BST. If the given node has no in-order successor in the tree, return `null`.

The successor of a node `p` is the node with the smallest key greater than `p.val`.

Example 1:

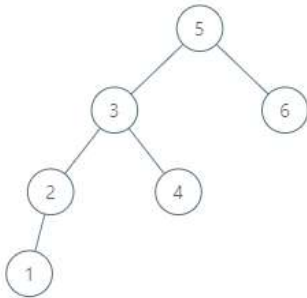


Input: `root = [2,1,3]`, `p = 1`

Output: 2

Explanation: 1's in-order successor node is 2. Note that both `p` and the return value is of `TreeNode` type.

Example 2:



Input: `root = [5,3,6,2,4,null,null,1]`, `p = 6`

Output: null

Explanation: There is no in-order successor of the current node, so the answer is null.

Constraints:

- The number of nodes in the tree is in the range $[1, 10^4]$.
- $-10^5 \leq \text{Node.val} \leq 10^5$
- All Nodes will have unique values.

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1 /**
2  * Definition for a binary tree node.
3  * public class TreeNode {
4  *     int val;
5  *     TreeNode left;
6  *     TreeNode right;
7  *     TreeNode(int x) { val = x; }
8  * }
9  */
10 class Solution {
11     public TreeNode inorderSuccessor(TreeNode root, TreeNode p) {
12     }
13 }
14 }
```