

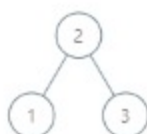
285. Inorder Successor in BST

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Given a binary search tree and a node in it, find the in-order successor of that node in the BST.

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

Example 1:

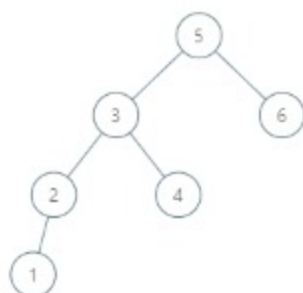


Input: root = [2,1,3], p = 1

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.

Note:

1. If the given node has no in-order successor in the tree, return `null`.
2. It's guaranteed that the values of the tree are unique.

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```

1  # Definition for a binary tree
   node.
2  # class TreeNode(object):
3  #     def __init__(self, x):
4  #         self.val = x
5  #         self.left = None
6  #         self.right = None
7
8  class Solution(object):
9  #     def inorderSuccessor(self,
   root, p):
10     """
11         :type root: TreeNode
12         :type p: TreeNode
13         :rtype: TreeNode
14         """
15

```