

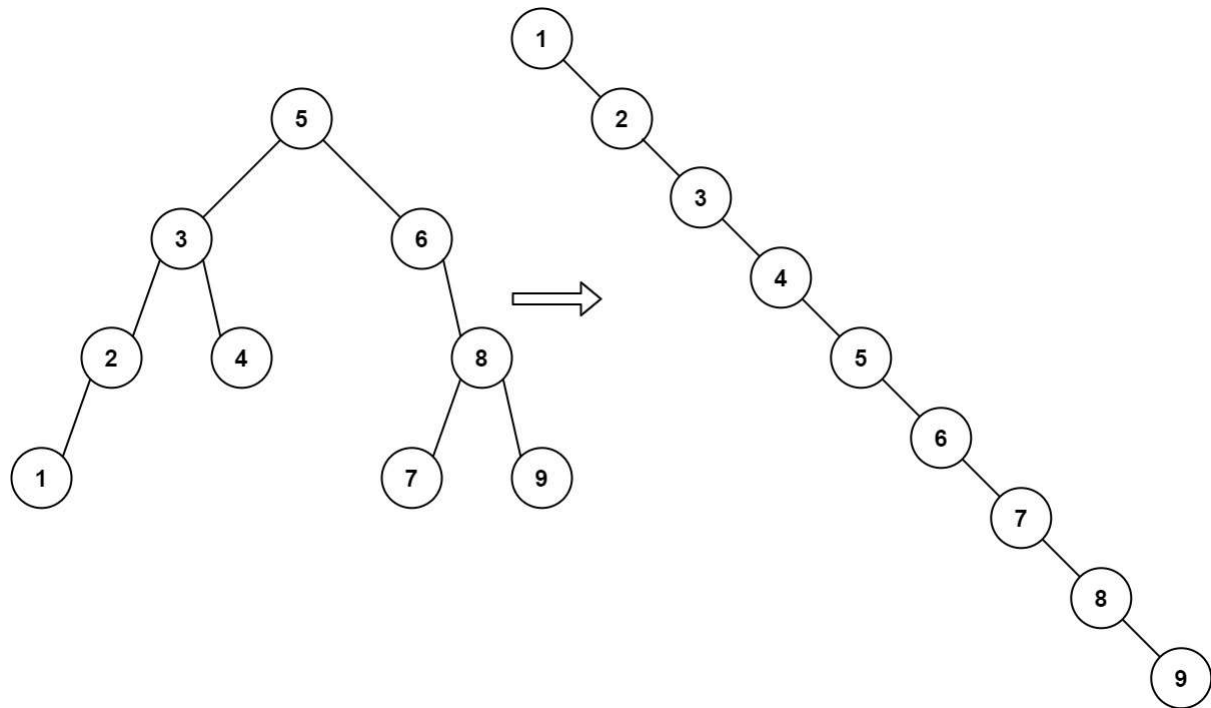
Description Solution Discuss (999+) Submissions

897. Increasing Order Search Tree

Easy 2145 587 Add to List Share

Given the `root` of a binary search tree, rearrange the tree in **in-order** so that the leftmost node in the tree is now the root of the tree, and every node has no left child and only one right child.

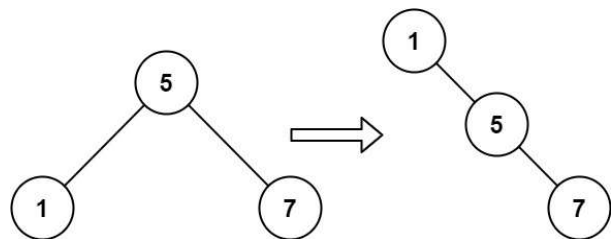
Example 1:



Input: `root = [5,3,6,2,4,null,8,1,null,null,null,7,9]`

Output: `[1,null,2,null,3,null,4,null,5,null,6,null,7,null,8,null,9]`

Example 2:



Input: `root = [5,1,7]`

Output: `[1,null,5,null,7]`

Java

Autocomplete

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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() {}
8   *     TreeNode(int val) { this.val = val; }
9   *     TreeNode(int val, TreeNode left, TreeNode right) {
10  *         this.val = val;
11  *         this.left = left;
12  *         this.right = right;
13  *     }
14  * }
15  */
16  class Solution {
17
18  public TreeNode increasingBST(TreeNode root) {
19      List<Integer> values = new ArrayList<>();
20
21      inOrderTraversal(root, values);
22
23      TreeNode resultNode = new TreeNode(0);
24      TreeNode dummyNode = resultNode;
25
26  for(int v : values){
27      dummyNode.right = new TreeNode(v);
28      dummyNode = dummyNode.right;
29  }
30
31      return resultNode.right;
32  }
33
34  private void inOrderTraversal(TreeNode treeNode, List<Integer> values){
35
36      if(treeNode == null)
37          return;
38
39      inOrderTraversal(treeNode.left, values);
40      values.add(treeNode.val);
41      inOrderTraversal(treeNode.right, values);
42  }
43  }
```