

## Leetcode Problem-3

### Increasing Order Search Tree

Problem List

Description Editorial Solutions Submissions

### 897. Increasing Order Search Tree

Solved

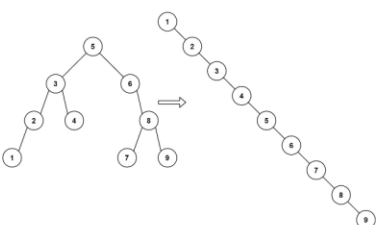
Easy

Topics

Companies

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]

4.3K

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</> Code

C Auto

```
7 *};
8 */
9
10 void inorder (struct TreeNode* root, struct TreeNode* nodes[], int *i)
11 {
12     if (root != NULL)
13     {
14         inorder (root->left, nodes, i);
15         nodes[(*i)++] = root;
16         inorder (root->right, nodes, i);
17     }
18 }
19
20
21 }
22
23 struct TreeNode* increasingBST(struct TreeNode* root) {
24     int i=0;
25     struct TreeNode* nodes[100];
26     inorder(root, nodes, &i);
27
28     for (int j=0; j<i-1; j++)
29     {
30         nodes[j]->left = NULL;
31         nodes[j]->right = nodes[j+1];
32     }
33     nodes[i-1]->left = NULL;
34     nodes[i-1]->right = NULL;
35     return nodes[0];
36 }
```

Saved

Ln 36, Col 2

Testcase Test Result

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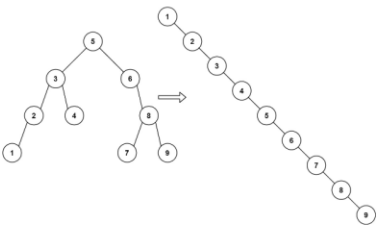
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14         inorder (root->left, nodes, i);
15         nodes[(*i)++] = root;
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Saved

Ln 36, Col 2

Testcase Test Result

Accepted

Runtime: 2 ms

Case 1

Case 2

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]

Expected

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

Contribute a testcase

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**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]`

4.3K 15

Code

```
7 *};
8 */
9
10 void inorder (struct TreeNode *root,struct TreeNode* nodes[],int *i)
11 {
12     if(root!=NULL)
13     {
14         inorder(root->left,nodes,i);
15         nodes[((*i)++)]=root;
16     }
17 }
```

Saved Ln 36, Col 2

Testcase Test Result

Accepted Runtime: 2 ms

Case 1 Case 2

Input

root = [5,1,7]

Output

[1,null,5,null,7]

Expected

[1,null,5,null,7]

Contribute a testcase