

Increasing order Search tree.

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

```
Struct TreeNode * inorder_traversal (Struct TreeNode * root, Struct TreeNode ** new-root)
```

```
{
    if (root)
```

```
{
    root->left = inorder_traversal (root->
                                     left, new-root);
```

```
    printf ("Parent-root : %d p", * new-root);
```

```
    (* new-root)->right = root;
```

```
    * new-root = root;
```

```
    inorder_traversal (root->right, new-root);
```

```
    return NULL;
```

```
}
return NULL;
```

```
}
Struct TreeNode * IncreasingBST (Struct
    TreeNode * root)
```

```
{
    Struct TreeNode * new-root =
        (Struct TreeNode *) malloc (sizeof (
```

struct Node *;

new_root → val = INT_MIN;

new_root → left = NULL;

new_root → right = NULL;

struct Treenode * ptr = new_root;

struct Treenode * return_root = new_root;

inOrderTraversal (root, &ptr)

return return_root → right;

}

Case 1

Input:

[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]

Case 2:

Input:

[5, 1, 7]

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

P 16/5/24