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leetcode (3): Increasing Order Search Tree 2AB-3 16/5/24

struct TreeNode* increasingBST(struct TreeNode* root)

{
if (root == NULL)
return NULL;

[F, 1, 2] : height

[F, 1, 2, 3, 4, 5] : height

struct TreeNode* newRoot = NULL;

struct TreeNode* prev = NULL;

struct TreeNode* curr = root;

struct TreeNode* stack[2000];

int top = -1;

while (curr != NULL || top != -1)

{
while (curr != NULL)

{
stack[++top] = curr;

curr = curr->left;

curr = stack[top--];

if (newRoot == NULL)

{
newRoot = curr;

curr = curr->right;

else {

prev->right = curr;

curr = curr->right;

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```

prev = curr;
curr->left = NULL;
curr = curr->right;
}

```

return newRoot;

}

output:

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]

2) Input: [5, 1, 7]

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