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/**
 * Definition for a binary tree node.
 * struct TreeNode {
 *     int val;
 *     TreeNode *left;
 *     TreeNode *right;
 *     TreeNode() : val(0), left(nullptr), right(nullptr) {}
 *     TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
 *     TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left),
right(right) {}
 * };
 */
class Solution {
    TreeNode* insert(TreeNode* root, int val){
        if (root == nullptr)
            return new TreeNode(val);
        else if (root->val > val)
            root->left = insert(root->left, val);
        else
            root->right = insert(root->right, val);

        return root;
    }
public:
    TreeNode* insertIntoBST(TreeNode* root, int val) {
        return insert(root, val);
    }
};

```