

EXP 6

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#include <stdio.h>
#include <stdlib.h>

// Define the structure for a binary tree node
struct TreeNode {
    int value;
    struct TreeNode* left;
    struct TreeNode* right;
};

// Function to create a new tree node
struct TreeNode* createNode(int value) {
    struct TreeNode* newNode = (struct TreeNode*)malloc(sizeof(struct TreeNode));
    if (newNode) {
        newNode->value = value;
        newNode->left = NULL;
        newNode->right = NULL;
    }
    return newNode;
}

// Function for inorder traversal
void inorderTraversal(struct TreeNode* node) {
    if (node) {
        inorderTraversal(node->left);
        printf("%d ", node->value);
        inorderTraversal(node->right);
    }
}

// Function for preorder traversal
void preorderTraversal(struct TreeNode* node) {
    if (node) {
        printf("%d ", node->value);
        preorderTraversal(node->left);
        preorderTraversal(node->right);
    }
}

// Function for postorder traversal
void postorderTraversal(struct TreeNode* node) {
    if (node) {
        postorderTraversal(node->left);
        postorderTraversal(node->right);
        printf("%d ", node->value);
    }
}

// Function to insert a new node into the binary tree
struct TreeNode* insertNode(struct TreeNode* root, int value) {
    if (root == NULL) {
        return createNode(value);
    }

    if (value < root->value) {

```

