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// Tree traversal in C
#include <stdio.h>
#include <stdlib.h>
struct node {
    int item;
    struct node* left;
    struct node* right;
};
// Inorder traversal
void inorderTraversal(struct node* root) {
    if (root == NULL) return;
    inorderTraversal(root->left);
    printf("%d ->", root->item);
    inorderTraversal(root->right);
}
// Preorder traversal
void preorderTraversal(struct node* root) {
    if (root == NULL) return;
    printf("%d ->", root->item);
    preorderTraversal(root->left);
    preorderTraversal(root->right);
}
// Postorder traversal
void postorderTraversal(struct node* root) {
    if (root == NULL) return;
    postorderTraversal(root->left);
    postorderTraversal(root->right);
    printf("%d ->", root->item);
}
// Create a new Node
struct node* createNode(int value) {
    struct node* newNode = malloc(sizeof(struct node));
    newNode->item = value;
    newNode->left = NULL;
    newNode->right = NULL;
    return newNode;
// Insert on the left of the node
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struct node* insertLeft(struct node* root, int value) {
    root->left = createNode(value);
    return root->left;
}
// Insert on the right of the node
struct node* insertRight(struct node* root, int value) {
    root->right = createNode(value);
    return root->right;
}
int main() {
    struct node* root = createNode(1);
    insertLeft(root, 2);
    insertRight(root, 3);
    insertLeft(root->left, 4);
    printf("Inorder traversal \n");
    inorderTraversal(root);
    printf("\nPreorder traversal \n");
    preorderTraversal(root);
    printf("\nPostorder traversal \n");
    postorderTraversal(root);
```