

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
struct node {
```

```
int data;
```

```
struct node* left;
```

```
struct node* right;
```

```
};
```

```
struct node* newNode(int data)
```

```
{
```

```
struct node* node
```

```
= (struct node*)malloc(sizeof(struct node));
```

```
node->data = data;
```

```
node->left = NULL;
```

```
node->right = NULL;
```

```
return (node);
```

```
}
```

```
void printPostorder(struct node* node)
```

```
{
```

```
if (node == NULL)
```

```
return;
```

```
printPostorder(node->left);
```

```
printPostorder(node->right);
```

```
printf("%d ", node->data);
```

```
}
```

```
void printInorder(struct node* node)
```

```
{
```

```
if (node == NULL)
```

```
return;
```

```
printInorder(node->left);
```

```
printf("%d ", node->data);
```

```
printInorder(node->right);
```

```
}
```

```
void printPreorder(struct node* node)
```

```
{
```

```
if (node == NULL)
```

```
return;
```

```
printf("%d ", node->data);
```

```
printPreorder(node->left);
```

```
printPreorder(node->right);
```

```
}
```

```
int main()
```

```
{
```

```
struct node* root = newNode(1);
```

```
root->left = newNode(2);
```

```
root->right = newNode(3);
```

```
root->left->left = newNode(4);
```

```
root->left->right = newNode(5);
```

```
printf("\nPreorder traversal of binary tree is \n");
```

```
printPreorder(root);
```

```
printf("\nInorder traversal of binary tree is \n");
```

```
printInorder(root);
```

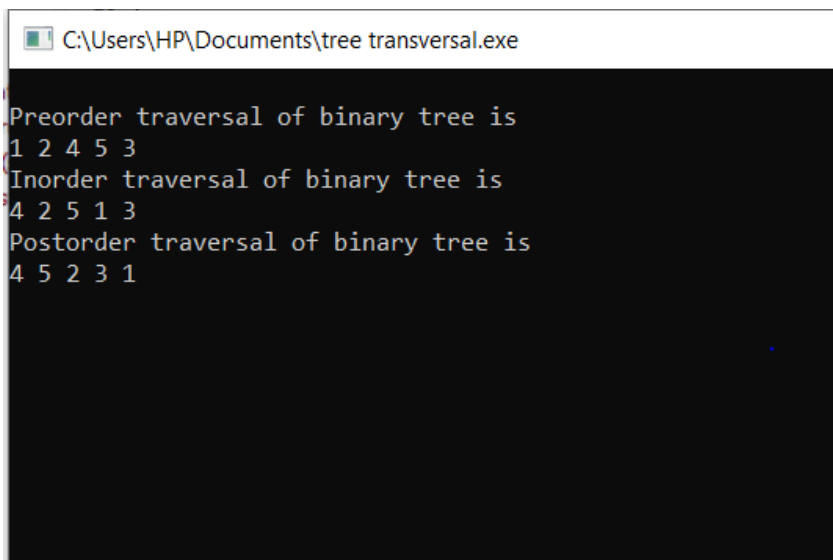
```
printf("\nPostorder traversal of binary tree is \n");
```

```
printPostorder(root);
```

```
getchar();
```

```
return 0;
```

```
}
```



The screenshot shows a Windows command prompt window titled "C:\Users\HP\Documents\tree transversal.exe". The output of the program is displayed in a monospaced font on a black background. The output consists of three lines of text, each followed by a space-separated list of numbers representing the traversal sequence of a binary tree.

```
C:\Users\HP\Documents\tree transversal.exe  
Preorder traversal of binary tree is  
1 2 4 5 3  
Inorder traversal of binary tree is  
4 2 5 1 3  
Postorder traversal of binary tree is  
4 5 2 3 1
```