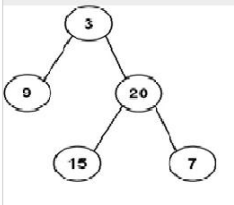
6.

Write a program to traverse the nodes present in the following tree in inorder and postorder traversal



CODE

```
#include <stdio.h>

#include <stdlib.h>


struct Node {

    int data;

    struct Node* left;

    struct Node* right;

};


struct Node* createNode(int data) {

    struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));

    newNode->data = data;

    newNode->left = NULL;

    newNode->right = NULL;

    return newNode;

}


void inorder(struct Node* root) {
```

```
    if (root == NULL)
        return;

    inorder(root->left);
    printf("%d ", root->data);
    inorder(root->right);
}

void postorder(struct Node* root) {
    if (root == NULL)
        return;

    postorder(root->left);
    postorder(root->right);
    printf("%d ", root->data);
}

int main() {
    struct Node* root = createNode(1);
    root->left = createNode(2);
    root->right = createNode(3);

    printf("Inorder traversal: ");
    inorder(root);
    printf("\n");
```

```
    printf("Postorder traversal: ");
    postorder(root);
    printf("\n");

    return 0;
}
```

OUTPUT

```
Inorder traversal: 2 1 3
Postorder traversal: 2 3 1
```