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1)implementation of inorder preorder postorder

```
#include<bits/stdc++.>

#include<iostream>

using namespace std;

class Tree
{
public:
    int data;
    Tree *left = NULL, *right = NULL;
    // Constructor initialised
    Tree (int x)
    {
        data = x;
        left = NULL;
        right = NULL;
    }
};

void preorder_traversal (Tree * root)
{
```

```
if (root == NULL)
    return;
// Print the data
cout << root->data << " ";
// Visit Left subtree
preorder_traversal (root->left);
// Visit right subtree
preorder_traversal (root->right);
}
```

```
void inorder_traversal (Tree * root)
{
    if (root == NULL)
        return;
    // Visit Left subtree
    inorder_traversal (root->left);
    // Print the data
    cout << root->data << " ";
    // Visit right subtree
    inorder_traversal (root->right);
}
```

```
void postorder_traversal (Tree * root)
{
```

```
if (root == NULL)
    return;
// Visit Left subtree
postorder_traversal (root->left);
// Visit right subtree
postorder_traversal (root->right);
// Print the data
cout << root->data << " ";
}
```

```
int main ()
{
    Tree *root = new Tree (17);
    root->left = new Tree (10);
    root->right = new Tree (11);
    root->left->left = new Tree (7);
    root->right->left = new Tree (27);
    root->right->right = new Tree (9);
    cout << "Preorder => ";
    preorder_traversal (root);
    cout << endl;
    cout << "Inorder => ";
    inorder_traversal (root);
    cout << endl;
```

```
cout << "Postorder => ";  
postorder_traversal (root);  
cout << endl;  
return 0;  
}
```