```
#include <bits/stdc++.h>
using namespace std;
class treeNode
public:
  int data;
  treeNode * leftchild;
  treeNode * rightchild;
  treeNode(int value)
  {
     data = value;
     leftchild = NULL;
     rightchild = NULL;
  }
};
void spacePrint ( int level){
  for ( int i = 0; i<level; i++){
     cout<<" ";
  }
}
void printTree(treeNode * root, int level){
  if (root == NULL)
  {
     return;
  if ( root->leftchild == NULL && root->rightchild == NULL){
     cout<<root->data<<endl;
  }
  else
  cout<<endl;
  spacePrint(level);
```

```
cout<< " Root: "<< root->data<<endl;
  }
  if (root->leftchild != NULL)
  spacePrint(level);
  cout<< " Left: ";
  printTree(root->leftchild, level+1);
  }
  if (root->rightchild != NULL)
  spacePrint(level);
  cout<< " Right: ";
  printTree(root->rightchild, level+1);
  }
}
void inOrder(treeNode * root, string &chk){
  if (root == NULL) return;
   inOrder(root->leftchild,chk);
   chk+=to_string(root->data);
   inOrder(root->rightchild,chk);
}
void PreOrder(treeNode * root, string &chk){
  if (root == NULL) return;
   chk+=to_string(root->data);
   PreOrder(root->leftchild,chk);
   PreOrder(root->rightchild,chk);
}
void PostOrder(treeNode * root, string &chk){
  if (root == NULL) return;
   PostOrder(root->leftchild,chk);
   PostOrder(root->rightchild,chk);
   chk+=to_string(root->data);
}
```

```
int main() {
  int n;
  cin>>n;
  treeNode * allNodes[n];
  for ( int i = 0; i < n; i++){
     allNodes[i] = new treeNode(-1);
  }
  for ( int i = 0; i < n; i++)
     int value,left,right;
     cin>>value>>left>>right;
     allNodes[i]->data = value;
     if(left>n-1 || right>n-1)
        cout<< " Invalid Index "<<endl;
        break;
     if (left != -1){
        allNodes[i]->leftchild=allNodes[left];
     }
     if (right != -1){
        allNodes[i]->rightchild=allNodes[right];
     }
  }
  printTree(allNodes[0], 0);
  string inordertravarsal ="";
  string preordertravarsal ="";
  string postordertravarsal ="";
  inOrder(allNodes[0],inordertravarsal);
  PreOrder(allNodes[0],preordertravarsal);
  PostOrder(allNodes[0],postordertravarsal);
  cout<< " Inorder Travarsal "<<inordertravarsal<<endl;</pre>
  cout<< " Preorder Travarsal "<< preorder travarsal << endl;
```

```
cout<< " Postorder Travarsal "<<postordertravarsal<<endl;
return 0;
}</pre>
```