```cpp
#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 LevelOrderTravarsal(treeNode *root, string &chk,int k)
{
    if (root == NULL)
    {
        return -1;
    }

    int level = 0;
    queue<treeNode *> q;
    q.push(root);
    q.push(NULL);
    int max = -999;


    while (!q.empty())
    {
        treeNode *chkNode = q.front();
        q.pop();
        if (chkNode != NULL)
        {
            if(level==k){
                if (max<chkNode->data){
                    max =chkNode->data;
                }
            }
            cout << chkNode->data;
            chk+=to_string(chkNode->data);
            if (chkNode->leftchild != NULL)
```

```
            {
                q.push(chkNode->leftchild);
            }
            if (chkNode->rightchild != NULL)
            {
                q.push(chkNode->rightchild);
            }
        }
        else
        {
            if (!q.empty())
            {
                q.push(NULL);
                level++;
            }
        }
    }

return max;

}


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 = "";
    string levelordertravarsal="";

    int maxValueatak =
LevelOrderTravarsal(allNodes[0],levelordertravarsal,2);

    //inOrder(allNodes[0], inordertravarsal);
    //PreOrder(allNodes[0], preordertravarsal);
    //PostOrder(allNodes[0], postordertravarsal);

    //cout << " Inorder Travarsal " << inordertravarsal << endl;
    //cout << " Preorder Travarsal " << preordertravarsal << endl;
    //cout << " Postorder Travarsal " << postordertravarsal << endl;

    //cout<<"Level Order Travarsal :"<<levelordertravarsal<<endl;
    cout<<endl<<maxValueatak<<endl<<endl;

    return 0;
```

```
}
```