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

```
spacePrint(level);
   if (root->leftchild != NULL)
       spacePrint(level);
   if (root->rightchild != NULL)
       spacePrint(level);
       cout << " Right: ";</pre>
       printTree(root->rightchild, level + 1);
void inOrder(treeNode *root, string &chk)
   if (root == NULL)
       return;
   inOrder(root->rightchild, chk);
treeNode *insertionBST(treeNode *root, int value)
   treeNode *newNode = new treeNode(value);
   if (root == NULL)
       return root;
    if (value < root->data)
```

```
else if (value > root->data)
   return root;
treeNode *searchBST(treeNode *root, int value)
   if (root == NULL)
      return NULL;
   if (root->data == value)
      return root;
   if (value < root->data)
      searchBST(root->leftchild, value);
   else
      searchBST(root->rightchild, value);
treeNode *inordersucc(treeNode *root)
   while (curr->leftchild != NULL)
```

```
return curr;
treeNode *deliationBST(treeNode *root, int value)
   if (value < root->data)
   else if (value > root->data)
       root->rightchild = deliationBST(root->rightchild, value);
   else
           free(root);
        else if (root->leftchild == NULL)
           return tmp;
        else
        return root;
```

```
void zigzagTravarsal(treeNode *root)
   currentLevel.push(root);
   while (!currentLevel.empty())
       treeNode * x = currentLevel.top();
       currentLevel.pop();
            if (x->leftchild)
               nextLevel.push(x->leftchild);
           if (x->rightchild)
               nextLevel.push(x->rightchild);
        else
               nextLevel.push(x->rightchild);
            if (x->leftchild)
               nextLevel.push(x->leftchild);
```

```
if (currentLevel.empty())
           swap(currentLevel, nextLevel);
int main()
   treeNode *root = NULL;
   zigzagTravarsal(root);
   return 0;
10
11 5 9 43 34 1 2 7 8 21
```