```
1
   #include<stdio.h>
 2
   #include<stdlib.h>
 3
 4 struct BinaryNode
 5
        struct BinaryNode *left;
 6
 7
        int data;
 8
        struct BinaryNode *right;
 9
   };
10
11 struct BinaryNode * CreateBinaryNode(int value)
12 {
13
        struct BinaryNode *B=(struct BinaryNode *)malloc(sizeof(struct BinaryNode));
14
        B->left=NULL;
15
        B->data=value;
16
        B->right=NULL;
17
        return B;
18 };
19
20
21 struct BinaryNode * KthSmallest(struct BinaryNode *root, int k)
22
23
        static int counter=0;
24
        struct BinaryNode *left=NULL, *right=NULL;
25
        if(!root)
26
            return NULL;
27
        left=KthSmallest(root->left,k);
28
        counter++;
29
        if(counter==k)
30
            return root;
31
32
       right=KthSmallest(root->right,k);
33
34
        if(left)
35
            return left;
36
        else if(right)
37
            return right;
38
            else
39
                return NULL;
40
41
   void main()
42
43
44
        struct BinaryNode *root;
45
        root=CreateBinaryNode(100);
46
        root->left=CreateBinaryNode(50);
47
        root->right=CreateBinaryNode(150);
48
        root->left->left=CreateBinaryNode(25);
49
        root->left->right=CreateBinaryNode(75);
50
        root->right->left=CreateBinaryNode(125);
51
        root->right->right=CreateBinaryNode(200);
52
53
        printf("3rd Smallest element u is %d",KthSmallest(root,4)->data);
54
```