

```

1  #include<iostream>
2  #include<stdio.h>
3  #include<stdlib.h>
4
5  struct BinaryNode
6  {
7      struct BinaryNode *left;
8      struct BinaryNode *right;
9      int data;
10 };
11
12 struct BinaryNode * createBinaryNode(int value)
13 {
14     struct BinaryNode *B=(struct BinaryNode *)malloc(sizeof(struct BinaryNode));
15     B->left=NULL;
16     B->right=NULL;
17     B->data=value;
18     return B;
19 };
20
21 int numberOfLeaves(struct BinaryNode *root)
22 {
23
24     if(root->left==NULL&&root->right==NULL)
25     {
26         return 1;
27     }
28
29
30     int left=numberOfLeaves(root->left);
31     int right=numberOfLeaves(root->right);
32
33     int Number=left+right;
34     return Number;
35 }
36
37 int main()
38 {
39     struct BinaryNode *root=createBinaryNode(10);
40     root->right=createBinaryNode(20);
41     root->left=createBinaryNode(30);
42     root->left->left=createBinaryNode(40);
43     root->left->right=createBinaryNode(50);
44     root->right->right=createBinaryNode(60);
45     root->right->left=createBinaryNode(70);
46
47     printf("Number of leaves is %d",numberOfLeaves(root));
48 }

```