

```

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 checkEquality(struct BinaryNode *root1,struct BinaryNode *root2)
22 {
23     if(root1==NULL&&root2==NULL)
24         return 1;
25     if(root1==NULL||root2==NULL)
26         return 0;
27
28     if(root1->data==root2->data)
29     {
30         int left=checkEquality(root1->left,root2->left);
31         int right=checkEquality(root1->right,root2->right);
32
33         return(left&&right);
34     }
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     struct BinaryNode *root1=createBinaryNode(10);
48     root1->right=createBinaryNode(20);
49     root1->left=createBinaryNode(20);
50
51
52     printf("is tree equal %d",checkEquality(root,root1));
53 }

```