

```

1  #include<stdio.h>
2  #include<stdlib.h>
3
4  struct BinaryNode
5  {
6      struct BinaryNode *left;
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 int isQuasi_IsoMorphicSructure(struct BinaryNode *root1,struct BinaryNode *root2)
21 {
22     if(!root1&&!root2)
23         return 1;
24
25     if(!root1&&root2||!root2&&root1)
26         return 0;
27
28     int a=isQuasi_IsoMorphicSructure(root1->left,root2->left);
29     int b=isQuasi_IsoMorphicSructure(root1->left,root2->right);
30     int c=isQuasi_IsoMorphicSructure(root1->right,root2->right);
31     int d=isQuasi_IsoMorphicSructure(root1->right,root2->left);
32
33     if((a&c)|(b&d))
34         return 1;
35
36     else
37         return 0;
38 }
39
40 void main()
41 {
42     struct BinaryNode *root1=createBinaryNode(10);
43     root1->left=createBinaryNode(20);
44     root1->left->left=createBinaryNode(20);
45     root1->left->left->left=createBinaryNode(30);
46
47     struct BinaryNode *root2=createBinaryNode(10);
48     root2->right=createBinaryNode(20);
49     root2->right->right=createBinaryNode(20);
50     root2->right->right->right=createBinaryNode(30);
51
52     printf("Are 2 structures quasi-isomorphic to each other : %d",
isQuasi_IsoMorphicSructure(root1,root2));
53 }

```