Instructions to illustrate how your source code works

I made a structure called node that is consisted of one integer, two nodes. Integer is containing the value of tree nodes. And two nodes are indicating the leftchild and rightchild of tree. I used fscanf to read the input text of two trees and move into my array. Next, find the root node in the array. If a value is in one of the left edges, but not in any right edges, the value is root. Next, I made two tree structure. First appearance of tree is only root and root value. And, I put the value one and one to the tree with the rules of binary tree. I used preorder function to read the value of one tree nodes and merge into another tree. And I get the new edges. I chose between 1->2 and 2->1. Finally, I finished with printing the root, edges of new tree, and added, deleted edges.

Document of explain your code – in code file

Performance Analysis – time complexity of my code is O(n^2). Because the maximum times of operation is the 2-dimensional for-loop, and rest thing can be ignored.

Actual running time

1. About 5-5 tree 0.0001sec
2. About 10-10 tree 0.002sec