Abstract

Binary tree traversal refers to the process of visiting each node in a specified order. Given the inorder traversal of a binary tree, along with one of its preorder or postorder traversals, the original binary tree can be uniquely identified. Many recursive and non-recursive methods of constructing the tree from inorder and any of the postorder or preorder traversals have been proposed. In this paper, one of the proposed algorithms has been examined. This algorithm computes the wrong tree for some input sequences. We show a particular situation in which the algorithm fails and a solution for this situation is proposed. The proposed a modified non-recursive algorithm for reconstructing a binary tree which generates the correct tree otherwise an error has been reported.

References

Modified Non-Recursive Algorithm for Reconstructing a Binary Tree


Index Terms
Computer Science Algorithms

Keywords
Binary Tree Reconstruction Traversal Non Recursive Algorithm