The Great Tree-List Recursion Problem.

Google™ Custom Search

Asked by Varun Bhatia.

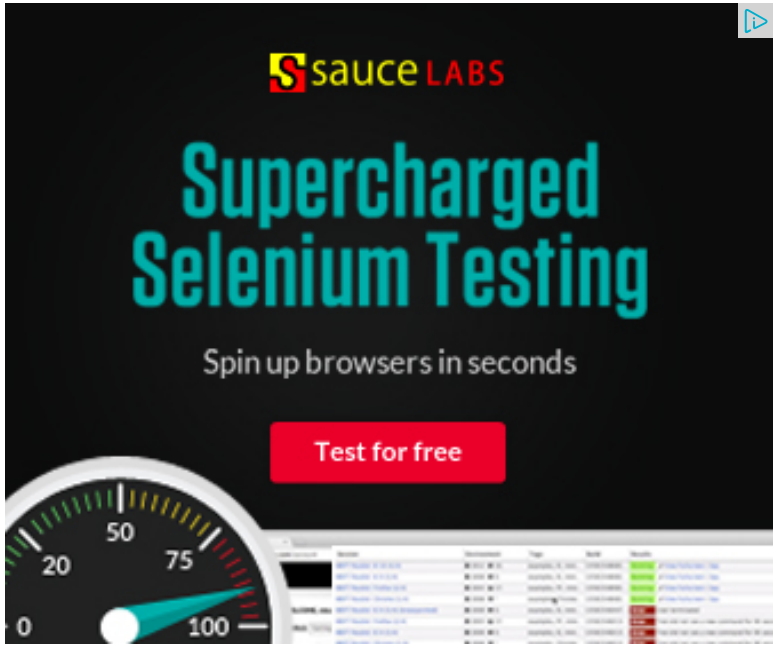
Question:
Write a recursive function treeToList(Node root) that takes an ordered binary tree and rearranges the internal pointers to make a circular doubly linked list out of the tree nodes. The"previous" pointers should be stored in the "small" field and the "next" pointers should be stored in the "large" field. The list should be arranged so that the nodes are in increasing order. Return the head pointer to the new list.

This is very well explained and implemented at
http://cslibrary.stanford.edu/109/TreeListRecursion.html

GeeksforGeeks

53,528 people like GeeksforGeeks.

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com



Related Tpoics:

- Given a linked list, reverse alternate nodes and append at the end
- Pairwise swap elements of a given linked list by changing links
- Self Organizing List | Set 1 (Introduction)
- Merge a linked list into another linked list at alternate positions
- QuickSort on Singly Linked List
- Delete N nodes after M nodes of a linked list
- Design a stack with operations on middle element
- Swap Kth node from beginning with Kth node from end in a Linked List

3 Tweet 0 0

Writing code in comment? Please use **ideone.com** and share the link here.

Interview Experiences
Advanced Data Structures
Dynamic Programming
Greedy Algorithms
Backtracking
Pattern Searching
Divide & Conquer
Mathematical Algorithms
Recursion
Geometric Algorithms

Popular Posts

All permutations of a given string

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com

Memory Layout of C Programs
Understanding “extern” keyword in C
Median of two sorted arrays
Tree traversal without recursion and without stack!
Structure Member Alignment, Padding and Data Packing
Intersection point of two Linked Lists
Lowest Common Ancestor in a BST.
Check if a binary tree is BST or not
Sorted Linked List to Balanced BST

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com

705

Subscribe

Recent Comments

Abhi You live US or India?

Google (Mountain View) interview · 47 minutes ago

Aman Hi, Why arent we checking for conditions...

Write a C program to Delete a Tree. · 1 hour ago

kzs please provide solution for the problem...

Backtracking | Set 2 (Rat in a Maze) · 1 hour ago

Sanjay Agarwal bool tree::Root_to_leaf_path_given_sum(tree...

Root to leaf path sum equal to a given number · 1 hour ago

GOPI GOPINATH @admin Highlight this sentence "We can easily...

Count trailing zeroes in factorial of a number · 1 hour ago

newCoder3006 If the array contains negative numbers also. We...

Find subarray with given sum · 2 hours ago

AdChoices

▶ Binary Tree

▶ The Great Tree

▶ Recursion

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com

AdChoices

▶ Tree View XML

▶ Java Tree

▶ JavaScript Tree

AdChoices

▶ Tree Structure

▶ Root Tree

▶ Tree Trees

@geeksforgeeks, **Some rights reserved** **Contact Us!** Powered by **WordPress** & **MooTools**, customized by geeksforgeeks team

open in browser PRO version Are you a developer? Try out the HTML to PDF API pdfcrowd.com