Difference between sums of odd level and even level nodes of a Binary Tree

August 19, 2013

15 Comments | Filed under Trees

Given a a Binary Tree, find the difference between the sum of nodes at odd level and the sum of nodes at even level. Consider root as level 1, left and right children of root as level 2 and so on.

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Print ancestors of a given binary tree node without recursion

June 30, 2013

46 Comments | Filed under Trees

Given a Binary Tree and a key, write a function that prints all the ancestors of the key in the given binary tree.

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Convert a given Binary Tree to Doubly Linked List | Set 2

June 29, 2013

36 Comments | Filed under Trees

Given a Binary Tree (BT), convert it to a Doubly Linked List(DLL). The left and right pointers in nodes are to be used as previous and next pointers respectively in converted DLL.

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Check for Identical BSTs without building the trees

June 23, 2013

50 Comments | Filed under Trees

Given two arrays which represent a sequence of keys. Imagine we make a Binary Search Tree (BST) from each array. We need to tell whether two BSTs will be identical or not without actually constructing the tree.

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Custom Tree Problem

June 18, 2013

8 Comments | Filed under Trees

You are given a set of links, e.g. a —> b b —> c b —> d a —> e Print the tree that would form when each pair of these links that has the same character as start and end point is joined together.

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Iterative Method to find Height of Binary Tree

June 4, 2013

25 Comments | Filed under Trees

There are two conventions to define height of Binary Tree 1) Number of nodes on longest path from root to the deepest node. 2) Number of edges on longest path from root to the deepest node.

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Find all possible interpretations of an array of digits

May 28, 2013

43 Comments | Filed under Trees

Consider a coding system for alphabets to integers where ‘a’ is represented as 1, ‘b’ as 2, .. ‘z’

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as 26. Given an array of digits (1 to 9) as input, write a function that prints all valid interpretations of input array.

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Tree Isomorphism Problem

May 15, 2013

21 Comments | Filed under Trees

Write a function to detect if two trees are isomorphic. Two trees are called isomorphic if one of them can be obtained from other by a series of flips, i.e. by swapping left and right children of a number of nodes.

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Longest prefix matching – A Trie based solution in Java

April 27, 2013

22 Comments | Filed under Trees

Given a dictionary of words and an input string, find the longest prefix of the string which is also a word in dictionary.

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B-Tree | Set 2 (Insert)

April 23, 2013

13 Comments | Filed under Trees

In the previous post, we introduced B-Tree. We also discussed search() and traverse() functions.

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B-Tree | Set 1 (Introduction)

April 21, 2013

4 Comments | Filed under Trees

B-Tree is a self-balancing search tree. In most of the other self-balancing search trees (like AVL and Red Black Trees), it is assumed that everything is in main memory. To understand use of B-Trees, we must think of huge amount of data that cannot fit in main memory.

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Convert a given Binary Tree to Doubly Linked List | Set 1

April 1, 2013

53 Comments | Filed under Trees

Given a Binary Tree (Bt), convert it to a Doubly Linked List(DLL). The left and right pointers in nodes are to be used as previous and next pointers respectively in converted DLL.

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Remove BST keys outside the given range

March 29, 2013

37 Comments | Filed under Trees

Given a Binary Search Tree (BST) and a range [min, max], remove all keys which are outside the given range. The modified tree should also be BST. For example, consider the following BST and range [-10, 13].

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Construct Complete Binary Tree from its Linked List Representation

March 19, 2013

21 Comments | Filed under Trees

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affiszerv Your example has two 4s on row 3, that's why it...

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Amazon Interview | Set 53 (For SDE-1) · 1 hour ago

sandeep void rearrange(struct node *head) {...

Given a linked list, reverse alternate nodes and append at the end · 2 hours ago

Neha I think that is what it should return as, in...

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Given Linked List Representation of Complete Binary Tree, construct the Binary tree. A complete binary tree can be represented in an array in the following approach.

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