

Print BST keys in the given range

March 3, 2011

27 Comments | Filed under [Trees](#)

Given two values k_1 and k_2 (where $k_1 < k_2$) and a root pointer to a Binary Search Tree. Print all the keys of tree in range k_1 to k_2 . i.e. print all x such that $k_1 \leq x \leq k_2$

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Print Ancestors of a given node in Binary Tree

March 1, 2011

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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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Get Level of a node in a Binary Tree

February 27, 2011

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Given a Binary Tree and a key, write a function that returns level of the key. For example, consider the following tree. If the input key is 3, then your function should return 1.

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Find k-th smallest element in BST (Order Statistics in

February 15, 2011

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Given root of binary search tree and K as input, find K-th smallest element in BST.

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Inorder Successor in Binary Search Tree

February 11, 2011

73 Comments | Filed under [Trees](#)

In Binary Tree, Inorder successor of a node is the next node in Inorder traversal of the Binary Tree. Inorder Successor is NULL for the last node in Inorder traversal.

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Applications of tree data structure

February 7, 2011

6 Comments | Filed under [Trees](#)

Difficulty Level: Rookie Why Tree? Unlike Array and Linked List, which are linear data structures, tree is hierarchical (or non-linear) data structure.

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Sorted order printing of a given array that represents a BST

December 13, 2010

26 Comments | Filed under [Trees](#)

Given an array that stores a complete Binary Search Tree, write a function that efficiently prints the given array in ascending order.

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Print nodes at k distance from root

September 16, 2010

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Given a root of a tree, and an integer k. Print all the nodes which are at k distance from root.

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Foldable Binary Trees

June 16, 2010

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Question: Given a binary tree, find out if the tree can be folded or not. A tree can be folded if left and right subtrees of the tree are structure wise mirror image of each other. An empty tree is considered as foldable.

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Total number of possible Binary Search Trees with n keys

May 26, 2010

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Total number of possible Binary Search Trees with n different keys = Catalan number $C_n = \frac{(2n)!}{(n+1)!n!}$

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Maximum width of a binary tree

May 15, 2010

[39 Comments](#) | Filed under [Trees](#)

Given a binary tree, write a function to get the maximum width of the given tree. Width of a tree is maximum of widths of all levels.

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Double Tree

17 Comments | Filed under [Trees](#)

April 30, 2010

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Write a program that converts a given tree to its Double tree. To create Double tree of the given tree, create a new duplicate for each node, and insert the duplicate as the left child of the original node.

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Given a binary tree, print all root-to-leaf paths

40 Comments | Filed under [Trees](#)

April 18, 2010

For the below example tree, all root-to-leaf paths are:

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Construct Tree from given Inorder and Preorder traversals

54 Comments | Filed under [Trees](#)

April 16, 2010

Let us consider the below traversals: Inorder sequence: D B E A F C Preorder sequence: A B D E C F

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

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

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« First

«

...

5

6

7

8

9

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