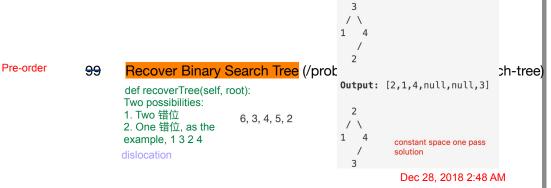
■ Tree

Dec 28, 2018 12:06 AM, if — twice, just black it

Finish these two page, 23 probelms on 28. Fighting.

Input: [3,1,4,null,null,2]

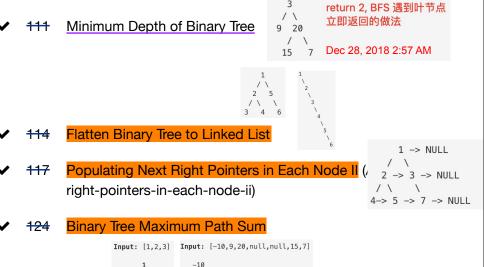


if cur.val < prev.val:
 if first == None:
 first = prev
 if first != None:
 second = cur</pre>

105 Construct Binary Tree from Preorder and Inorder Traversal

The solution didn't use recursion.

106 Construct Binary Tree from Inorder and Postorder Traversal (/problems/construct-binary-tree-from-inorder-and-postorder-traversal)



9 20

15 7 Output: 42

Binary Search Tree Iterator (/problems/binar

Output: 6

if cur.left == None and cur.right == None:
 return height + 1

self.flatten(root.right)
self.flatten(root.left)
root.right = self.prev
root.left = None
self.prev = root

Ng for i in range(size):
 cur = dq.popleft()
 if cur.left != None:
 dq.append(cur.left)
 if cur.right != None:
 dq.append(cur.right)

for i in range(len(dq) - 1):
 dq[i].next = dq[i+1]

199 Binary Tree Right Side View (/problems/binary-tree-right-side-view)

Input: 1 /\ 2 3 /\ / 4 5 6 Output: 6 173

222 Count Complete Tree Nodes (/problems/count-complete-tree-nodes)

In a complete binary tree every level, except possibly the last, is completely filled, and all nodes in the last level are as far left as possible. It can have between 1 and 2h nodes inclusive at the last level h.

Input: [1,2,3,null,5,null,4]

or)

Output: [1, 3, 4] Explanation:

250 Count Univalue Subtrees le-subtre(if len(preorder) == 0: return True Output: 4 from collections import deque 255 Verify Preorder Sequence in Binary Search Tree (/problems/ dq = deque()sequence-in-binary-search-tree) Input: [5,2,1,3,6] dq.append(preorder[0]) Output: true min_ = float('-inf') for i in range(1, len(preorder)): if preorder[i] < min_:</pre> return False 272 Closest Binary Search Tree Value II (/pro sest-bina while len(dq) > 0 and dq[-1] < preorder[i]:</pre> value-ii) $min_ = dq[-1]$ target = 3.71428 0utput: 4 dq.pop() dq.append(preorder[i]) 298 Binary Tree Longest Consecutive Sequence (/problems/binareturn True consecutive-sequence) Input: [10,5,15,1,8,null,7] 333 Largest BST Subtree (/probler Output: 3 98 Validate Binary Search Tree (/problems/validate-binary-search-tree) Output: false Input: [1,2,3,4,5] 156 ary-tree-upside-down) Binary Tree Upside Down Input: Output: ["1->2->5", "1->3"] 257 Binary Tree Paths (/proble -paths) 236 Lowest Common Ancestor of a Binary Tree (/problems/lowest-commonancestor-of-a-binary-tree) Populating Next Right Pointers in Each Node (/problems/populating-nextright-pointers-in-each-node) Input: root = [5,3,6,2,4,null,null,1], k = 3 1 -> NULL 2 -> 3 -> NULL 4->5->6->7 -> NULL Serialize and Deserialize Binary Tree (/problems/serialize-and-deserialize-297 binary-tree) The way use count 230 Kth Smallest Element in a BST (/problems/kth-smallest-element-in-a-bst) Convert Sorted Array to Binary Search Tree (/problems/convert-sorted-array-108 Given the sorted array: [-10,-3,0,5,9], 1-tree) One possible answer is: [0,-3,9,-10,nul

Input: root = [5,1,5,5,5,null,5]

~	285	Inorder Successor in BST (/problems/inorder-successor-in-bst) ■
~	366	Find Leaves of Binary Tree (/problems/find-leaves-of-binary-tree)
	404	Sum of Left Leaves (/problems/sum-of-left-leaves)
	437	Path Sum III (/problems/path-sum-iii)
	449	Serialize and Deserialize BST (/problems/serialize-and-deserialize-bst)
	450	Delete Node in a BST (/problems/delete-node-in-a-bst)
	501	Find Mode in Binary Search Tree (/problems/find-mode-in-binary-search-tree)
	508	Most Frequent Subtree Sum (/problems/most-frequent-subtree-sum)
	513	Find Bottom Left Tree Value (/problems/find-bottom-left-tree-value)
	515	Find Largest Value in Each Tree Row (/problems/find-largest-value-in-each-tree-row)
	536	Construct Binary Tree from String (/problems/construct-binary-tree-fromstring)
~	543	Diameter of Binary Tree (/problems/diameter-of-binary-tree)
	538	Convert BST to Greater Tree (/problems/convert-bst-to-greater-tree)
	545	Boundary of Binary Tree (/problems/boundary-of-binary-tree)
	549	Binary Tree Longest Consecutive Sequence II (/problems/binary-tree-longest-consecutive-sequence-ii)
	563	Binary Tree Tilt (/problems/binary-tree-tilt)
	572	Subtree of Another Tree (/problems/subtree-of-another-tree)
	582	Kill Process (/problems/kill-process) ■
	606	Construct String from Binary Tree (/problems/construct-string-from-binary-tree)
~	617	Merge Two Binary Trees (/problems/merge-two-binary-trees)
	623	Add One Row to Tree (/problems/add-one-row-to-tree)
	637	Average of Levels in Binary Tree (/problems/average-of-levels-in-binary-tree)
	652	Find Duplicate Subtrees (/problems/find-duplicate-subtrees)
	653	Two Sum IV - Input is a BST (/problems/two-sum-iv-input-is-a-bst)

654 Maximum Binary Tree (/problems/maximum-binary-tree) 655 Print Binary Tree (/problems/print-binary-tree) 662 Maximum Width of Binary Tree (/problems/maximum-width-of-binary-tree) Equal Tree Partition (/problems/equal-tree-partition) 663 Path Sum IV (/problems/path-sum-iv) 666 669 Trim a Binary Search Tree (/problems/trim-a-binary-search-tree) 671 Second Minimum Node In a Binary Tree (/problems/second-minimum-nodein-a-binary-tree) 684 Redundant Connection (/problems/redundant-connection) 685 Redundant Connection II (/problems/redundant-connection-ii) 687 Longest Univalue Path (/problems/longest-univalue-path) 742 814 Binary Tree Pruning (/problems/binary-tree-pruning) 834 Sum of Distances in Tree (/problems/sum-of-distances-in-tree) 863 All Nodes Distance K in Binary Tree (/problems/all-nodes-distance-k-inbinary-tree) Smallest Subtree with all the Deepest Nodes (/problems/smallest-subtree-865 with-all-the-deepest-nodes) 426 Convert Binary Search Tree to Sorted Doubly Linked List 701 Insert into a Binary Search Tree (/problems/insert-into-a-binary-search-tree) 700 Search in a Binary Search Tree (/problems/search-in-a-binary-search-tree) 590 N-ary Tree Postorder Traversal (/problems/n-ary-tree-postorder-traversal) 589 N-ary Tree Preorder Traversal (/problems/n-ary-tree-preorder-traversal) 429 N-ary Tree Level Order Traversal (/problems/n-ary-tree-level-order-traversal) 559 Maximum Depth of N-ary Tree (/problems/maximum-depth-of-n-ary-tree) 431 Encode N-ary Tree to Binary Tree (/problems/encode-n-ary-tree-to-binarytree) Serialize and Deserialize N-ary Tree (/problems/serialize-and-deserialize-n-428

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872	Leaf-Similar Trees (/problems/leaf-similar-trees)
889	Construct Binary Tree from Preorder and Postorder Traversal (/problems/construct-binary-tree-from-preorder-and-postorder-traversal)
894	All Possible Full Binary Trees (/problems/all-possible-full-binary-trees)
897	Increasing Order Search Tree (/problems/increasing-order-search-tree)
919	Complete Binary Tree Inserter (/problems/complete-binary-tree-inserter)
951	Flip Equivalent Binary Trees (/problems/flip-equivalent-binary-trees)
958	Check Completeness of a Binary Tree (/problems/check-completeness-of-a binary-tree)