

Invert binary tree

226. Invert Binary Tree

Easy

12543

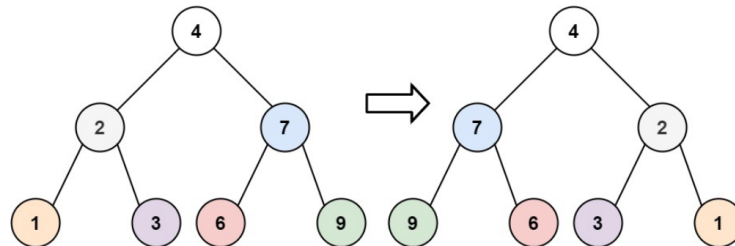
175

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Given the `root` of a binary tree, invert the tree, and return *its* root.

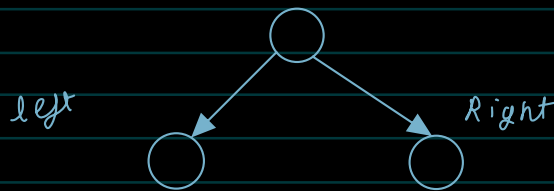
Example 1:



Input: root = [4,2,7,1,3,6,9]

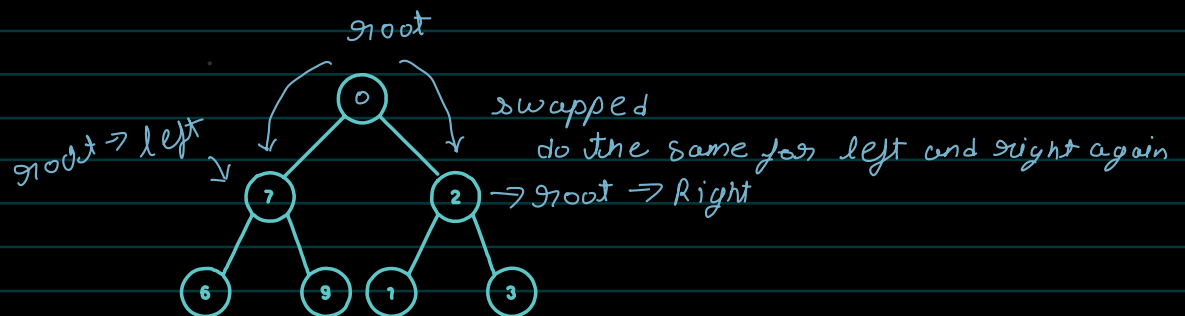
Output: [4,7,2,9,6,3,1]

Traverse the tree both the side

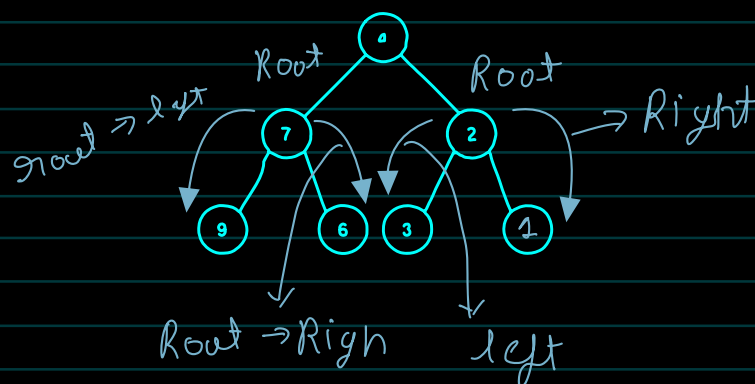


Using third variable swap the pointer of Left and right

temp = root → left
root → left = root → Right
root → Right = temp



recursion



```

2 - class Solution {
3   public:
4     void invert(TreeNode* &root){
5       if(root==NULL) return;
6
7       TreeNode* temp=root->left;
8       // TreeNode* temp1=root->right;
9       // root->left=temp1;
10      root->left=root->right;
11      root->right=temp;
12      invert(root->right);
13      invert(root->left);
14    }
15
16    TreeNode* invertTree(TreeNode* root) {
17      invert(root);
18      return root;
19    }
20  };

```

T.C - $O(N)$

S.C - $O(1)$