



## Crux Assignment (Binary Trees)

1. Given a binary tree find sum of all the nodes.
2. Given two trees check if they are structurally identical
3. Given a Binary tree check if it is balanced i.e. depth of the left and right subtrees of every node differ by 1 or less.
4. Given a Binary tree, write code to create a separate linked list for each level. You should return a array of linkedlists.
5. Given a binary tree print all nodes that don't have a sibling
6. Given a binary tree, remove all the leaves from the tree.
7. Given a binary tree. Print the level order traversal, **make sure each level start at a new line.**
8. Given a binary tree. Print the zig zag order i.e print level 1 from left to right, level 2 from right to left and so on. This means odd levels should get printed from left to right and even levels should be printed from right to left. Each level should be printed at a new line.
9. Given preorder and inorder create the tree, given postorder and inorder create the tree.

Bonus :

1. Pretty Print a Binary tree. (Hint: Find the height of the tree first)

