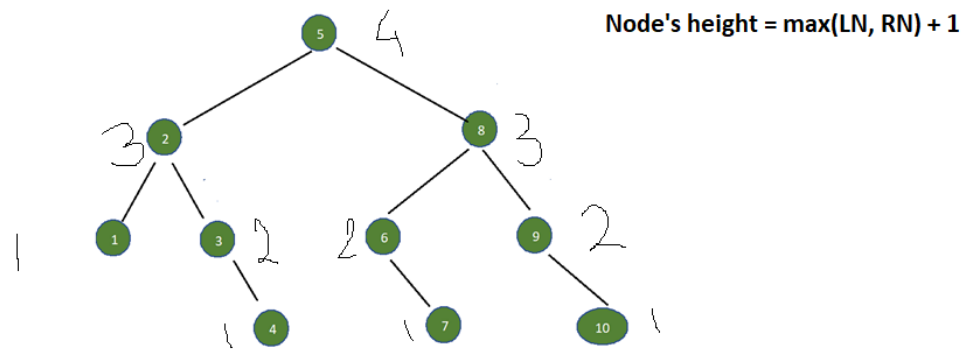
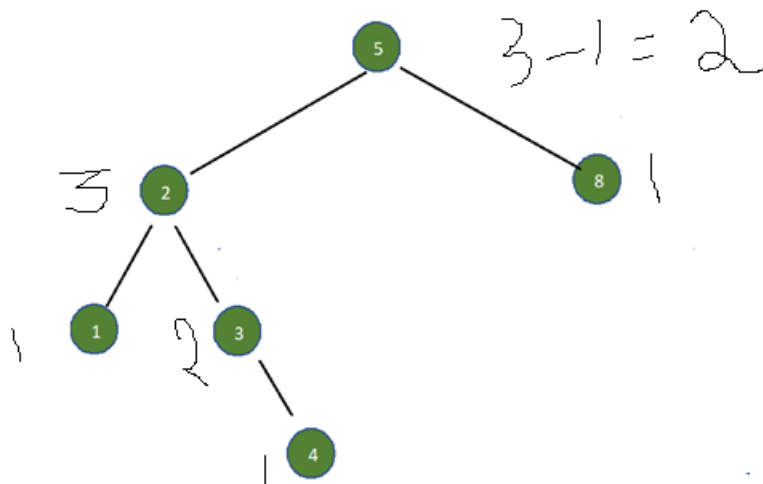


Height Calculation:



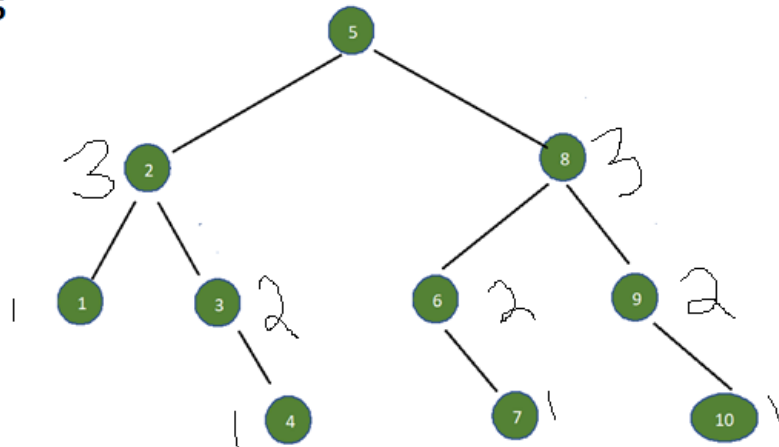
Balanced Tree: A balanced tree is defined to be a tree such that the heights of the two subtrees of any node never differ by more than 1.

Imbalanced Tree:

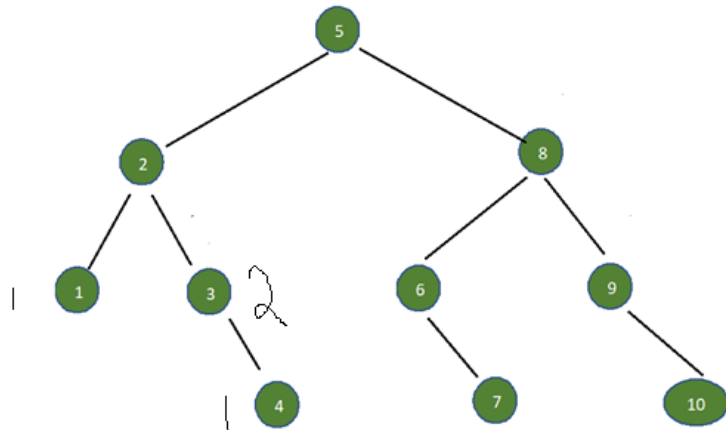


Approach#1

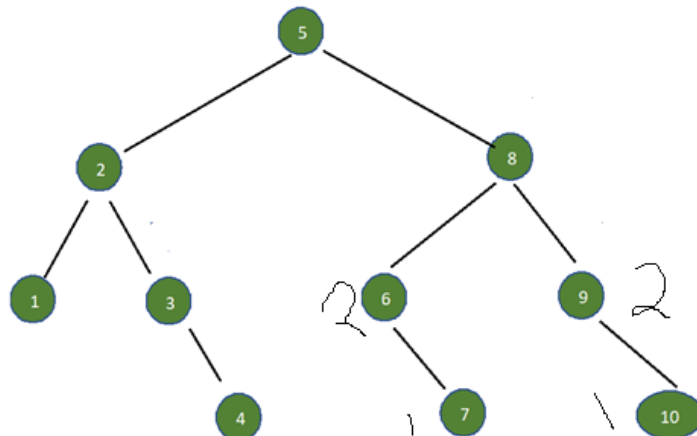
Check Balanced for 5



Check Balanced for 2



Check Balanced for 8



Height Calculation is invoked multiple times.

Approach#2

How about checking if a node is balanced in Height Calculation logic itself?

