Algorthim Height (T)

Return heightHelper(T,T.root()). O(1)

Algorthim heightHelper(T,V)

If(T.isExternal(V)) return 0; O(1)

Else

leftH:=1+heightHelper(T,T.leftChiled()). O(n)

rightH:= 1+heightHelper(T,T.rightChiled()) O(n)

if(leftH>rightH) return leftH; O(1)

else return rightH; O(1)

over all time complexity is O(n)

function hight(T){

return hightHelper(T,T.root())

}

function hightHelper(T,V){

if(T.isExternal(V)) return 0

else{

let leftH=1+hightHelper(T,T.leftChild(V))

let rightH=1+hightHelper(T,T.rightChild(V))

if(leftH>rightH)

return leftH;

return rightH;

}

}