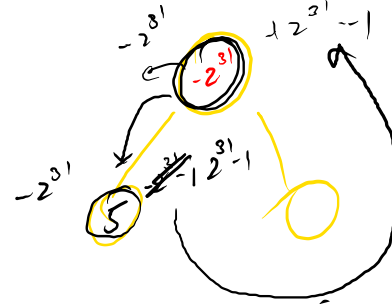
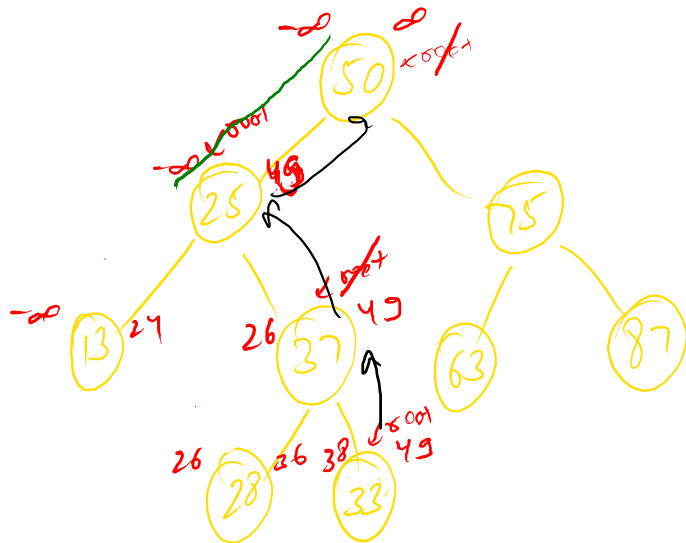


Validate
BST



$O(n)$

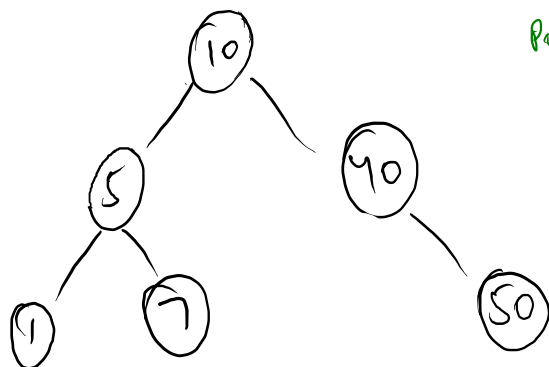
-2^{31} = Integer.MIN_VALUE

$2^{31}-1$ = Integer.MAX_VALUE

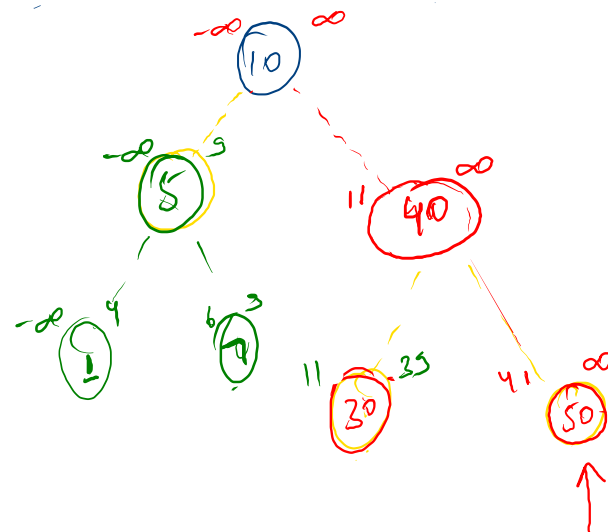
boolean

```

boolean isValid(TreeNode node, long min, long max) {
    if (node == null) return true;
    if (node.val > max || node.val < min) return false;
    boolean temp1 = isValid(node.left, min, node.val);
    boolean temp2 = isValid(node.right, node.val, max);
    if (temp1 == false || temp2 == false) return false;
    return true;
}
    
```



Postorder → 1 7 5 30 50 40 10



```

public static Node constructTree(int post[], int n) {
    idx = post.length - 1;
    return construct(post, Integer.MIN_VALUE, Integer.MAX_VALUE);
}

static int idx;

public static Node construct(int[] post, int min, int max) {
    if (idx == -1) {
        return null;
    }

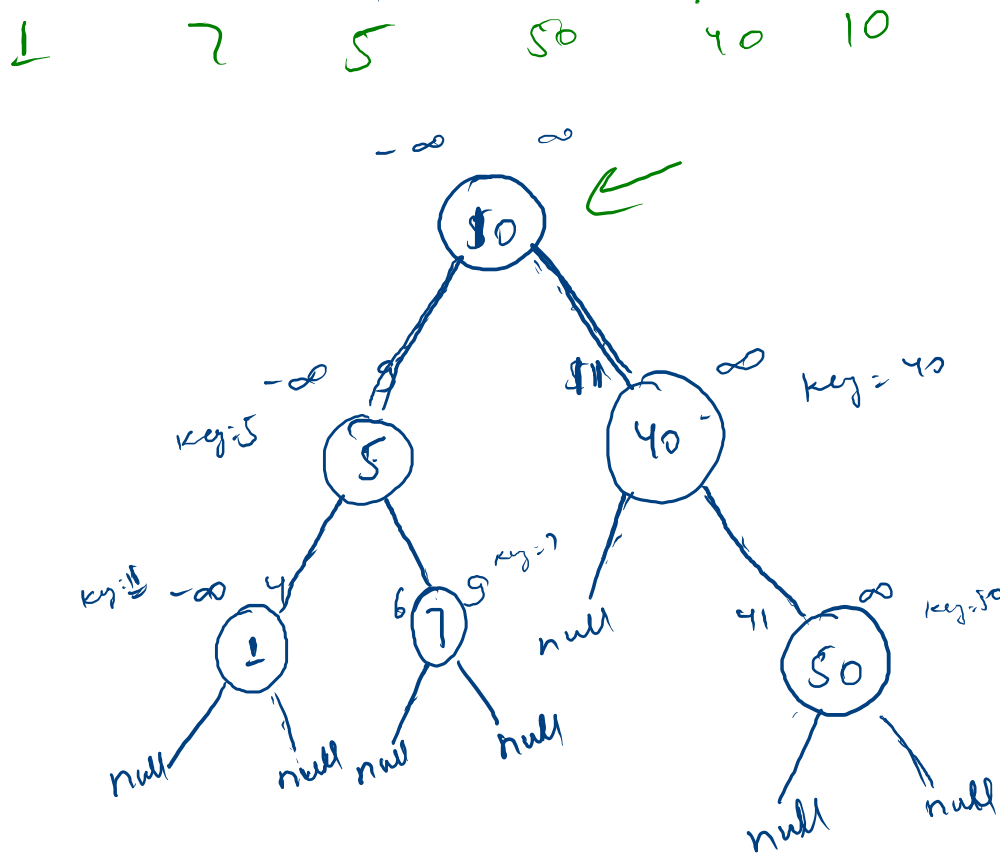
    if (post[idx] >= min && post[idx] <= max) {
        Node root = new Node(post[idx]);
        int key = post[idx];
        idx--;

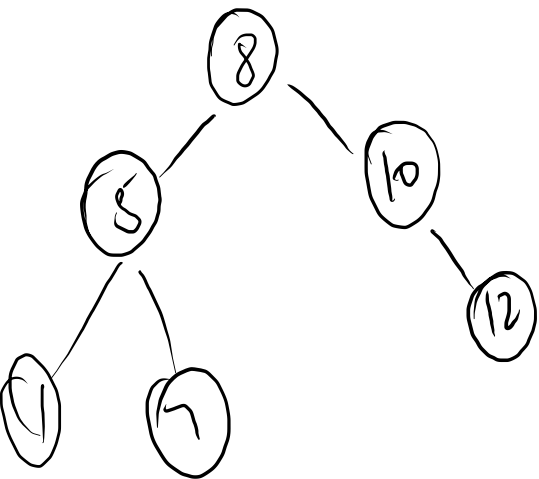
        root.right = construct(post, key + 1, max);
        root.left = construct(post, min, key - 1);

        return root;
    }

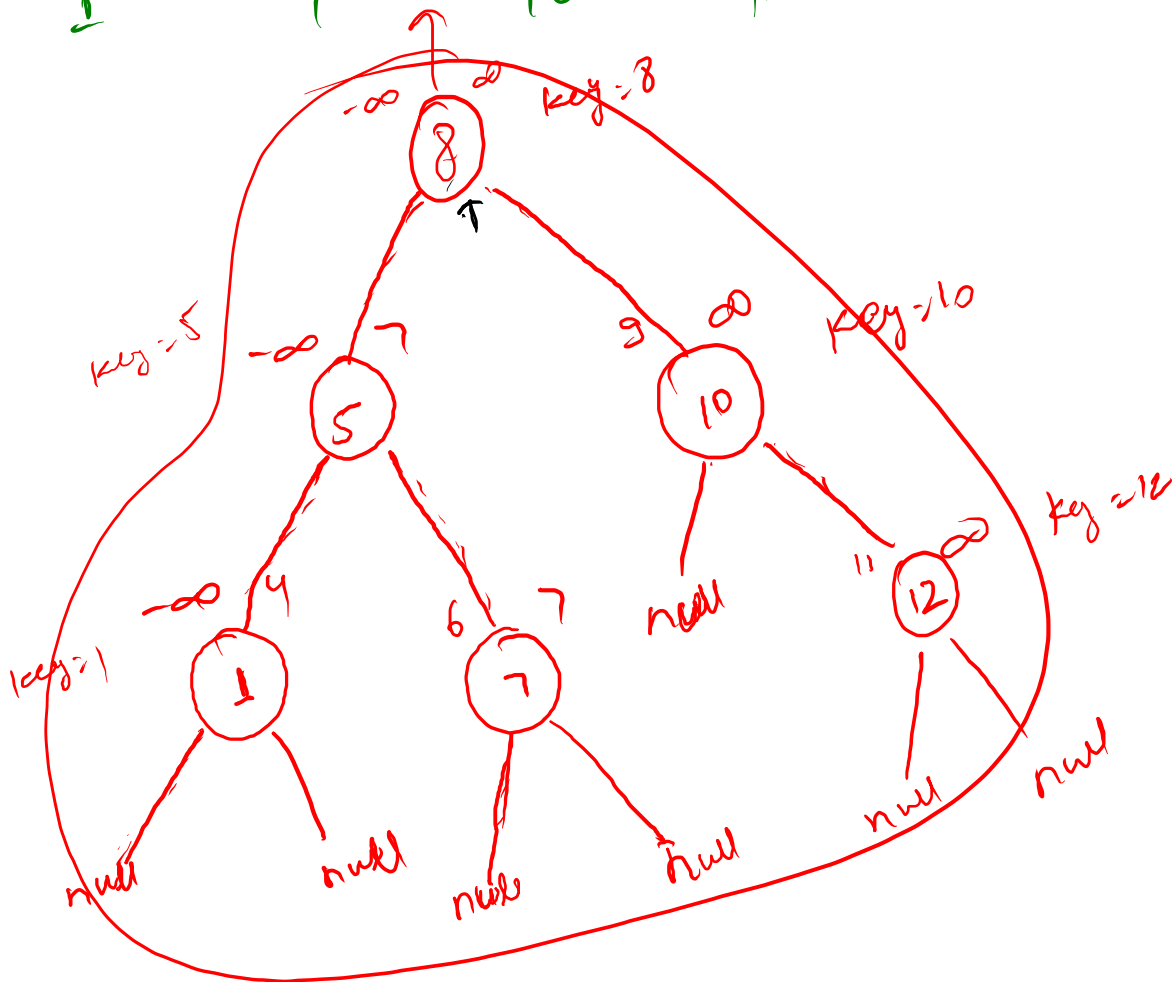
    return null;
}

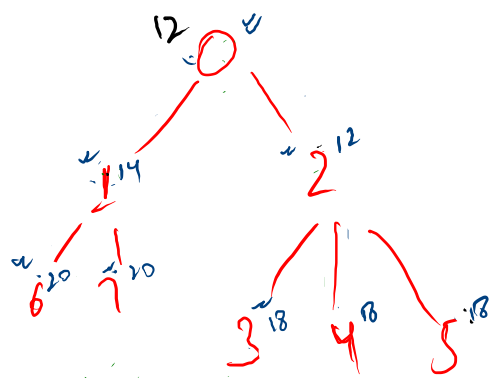
```





8 5 1 7 10 12

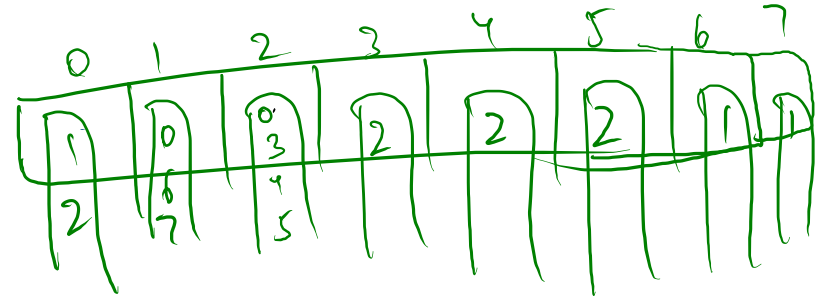


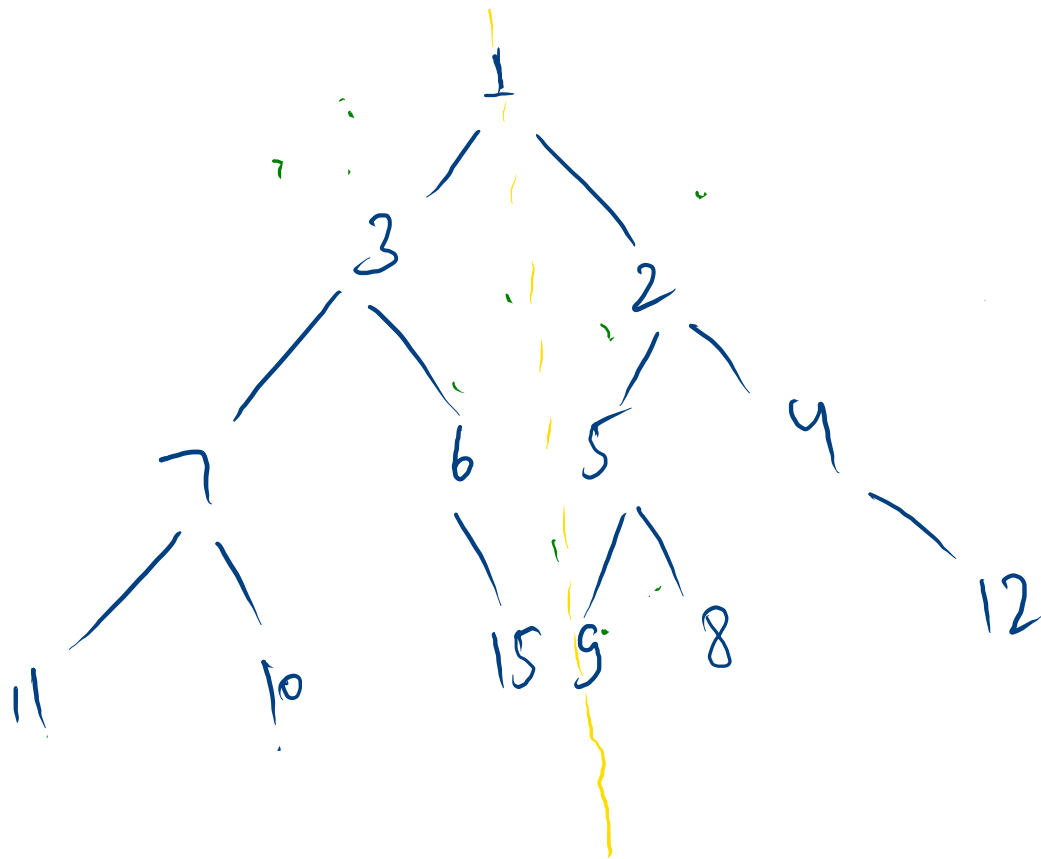


```

public void answercalc(int src, boolean[] vis, int N) {
    LinkedList<Integer> queue = new LinkedList<>();
    queue.addLast(src);
    vis[src] = true;
    while (queue.size() > 0) {
        int size = queue.size();
        while (size-- > 0) {
            int rem = queue.removeFirst();

            ArrayList<Integer> children = tree.get(rem);
            for (int child : children) {
                if (vis[child] == false) {
                    ans[child] = ans[rem] - count[child] + (N - count[child]);
                    vis[child] = true;
                    queue.addLast(child);
                }
            }
        }
    }
}
  
```

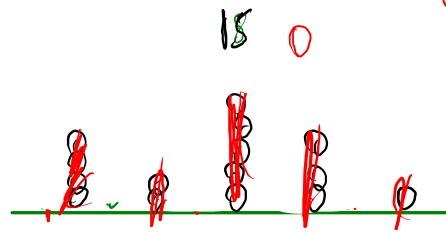




Ans: $0 + 1 + 6 + 28$
 $+ 132 + 30$
 $+ 135$

Buddy him

Charlie

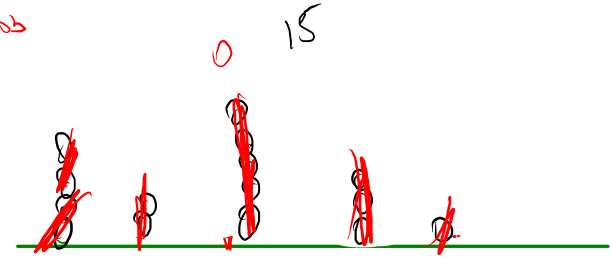


A

Alice



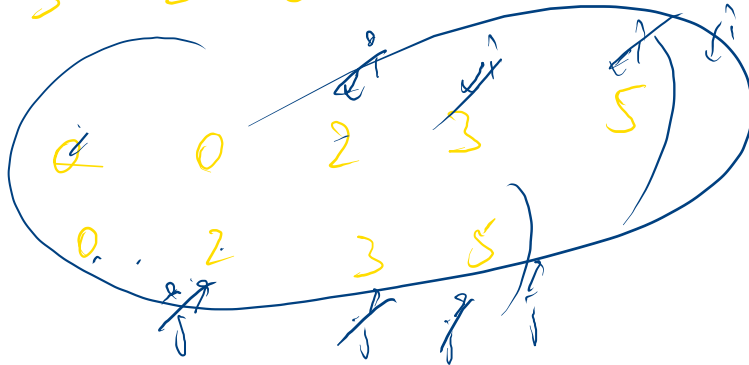
Charlie → Alice → Bob



B

→ 2 3 0 0 5

→ 5 3 2 0



① (Count of coins)_A \neq (Count of coins)_B

↳ Alice

② (Count of coins)_A $=$ (Count of coins)_B

structure diff.
↳ Alice

structure same
↳ Bob