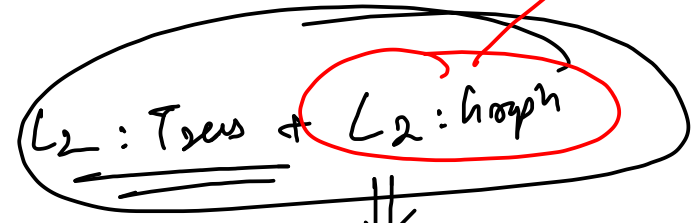


T



Topic :



class ✓

Backtracking

LC

Tues (1 class remains)

Graph

Arrays & String

DP

Heaps

Last week of August

Revise

Doubts

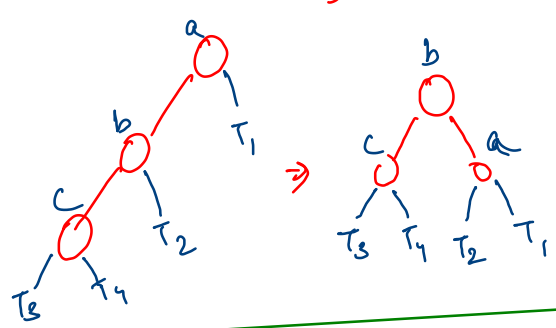
M.L2

class end

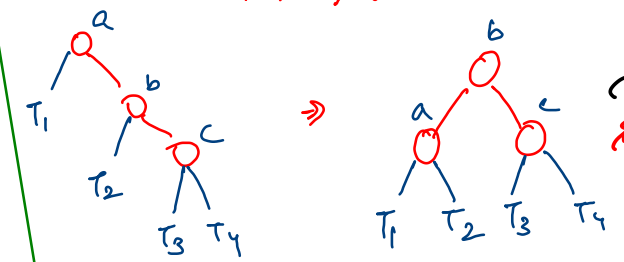
BST → Insert → Balanced?
Unbalanced?

self balance AVL

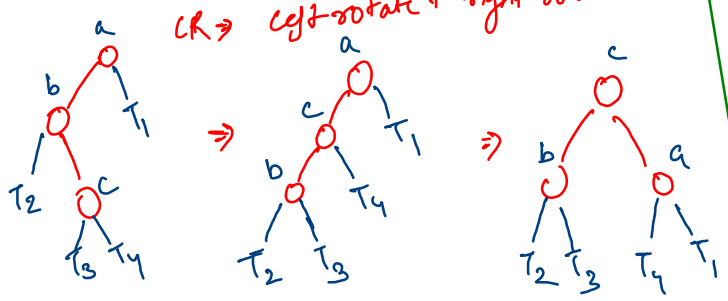
LL ⇒ right rotation



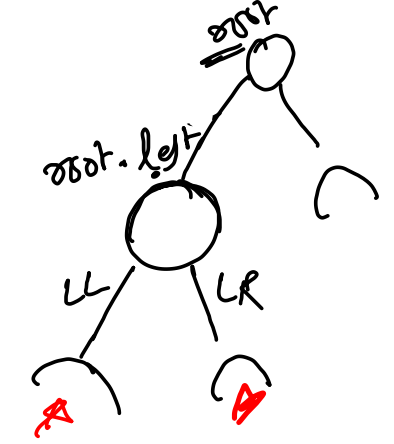
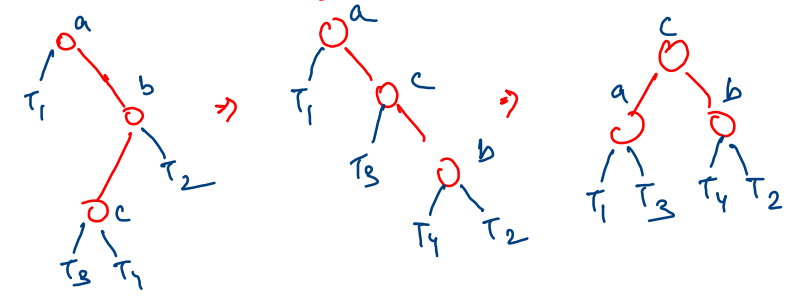
RR ⇒ left rotation



LR ⇒ left rotate + right rotate



RL ⇒ right rotate + left rotate



$$diff = LNT - RNT$$

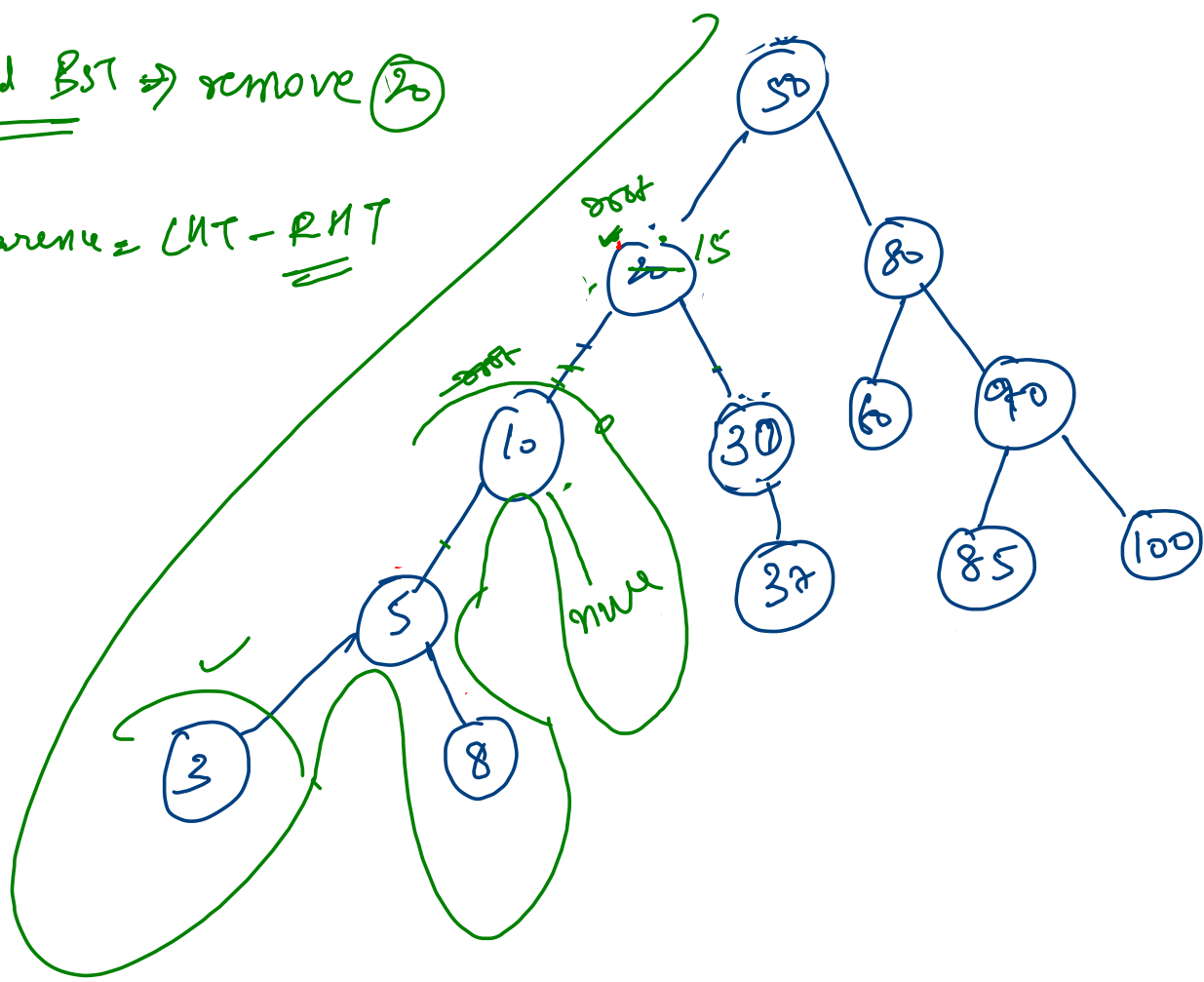
if (diff > 1) {
 if (data < root.left) { LL
 } else if (data > root.left) { LR

}
 }
 { (diff < -1) }

RR
 RL

Balanced BST \Rightarrow remove 20

difference = $LNT - \underline{\underline{PNT}}$



```

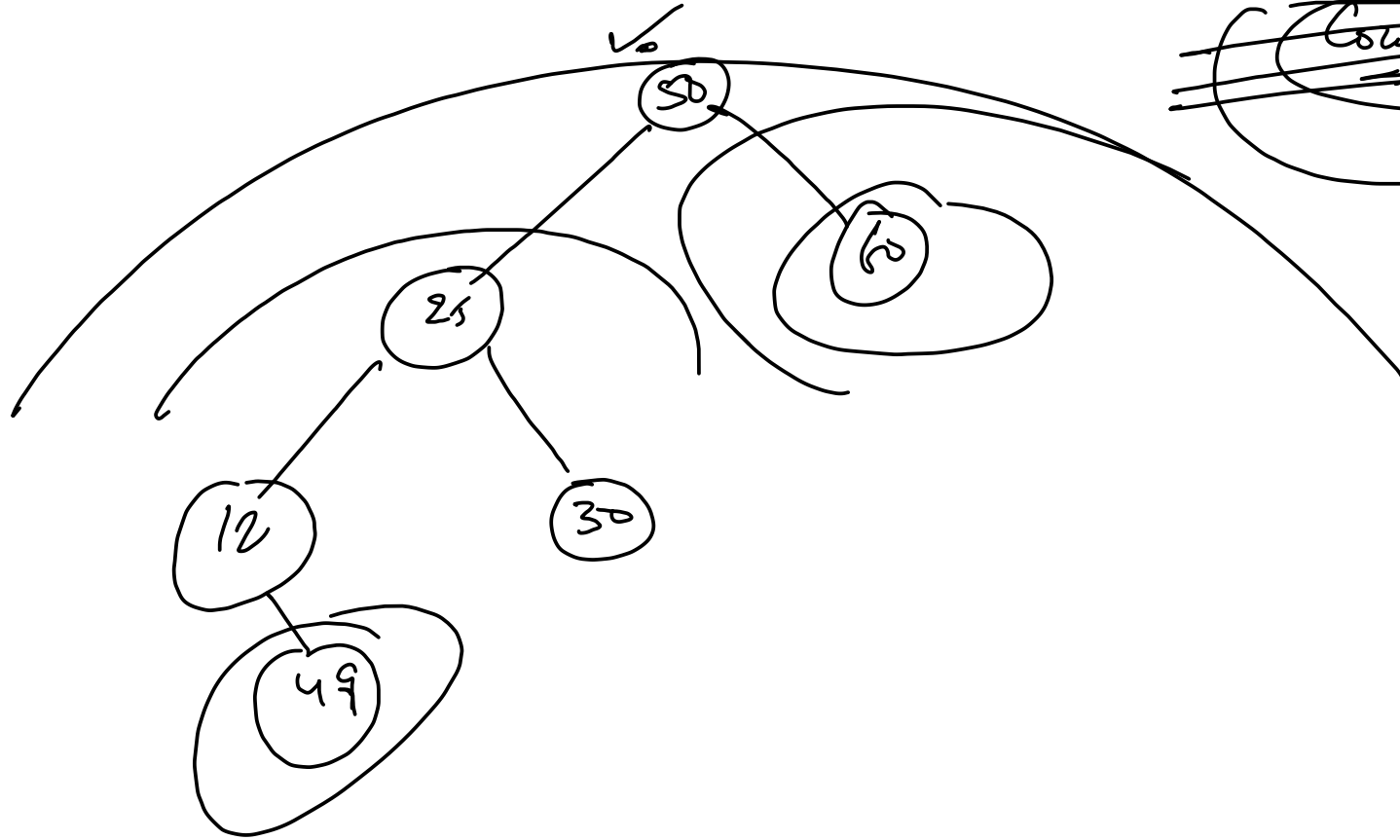
if ( difference(root) > 1 ) { L
    ( int delta = difference(root, left);
      if ( delta >= 0 ) {
        LL
        return if ( delta < 0 ) {
          LR
        }
      }
    )
}

```

```

{else if ( differenu(root) < -1 ) { R
    int delta = differenu(root, right);
    if ( delta > 0 ) {
        RL
    } else if ( delta <= 0 ) {
        RR
    }
}

```



~~Count #~~

BST =

- ↳ $\text{Max}(\text{left}) < \text{nodes} < \text{Min}(\text{right})$
- ↳ $\text{isbst}(L, w)$
- ↳ $\text{isbst}(\text{right})$

