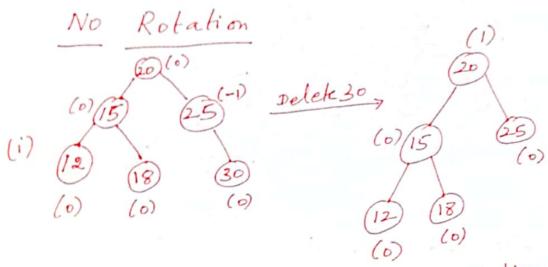
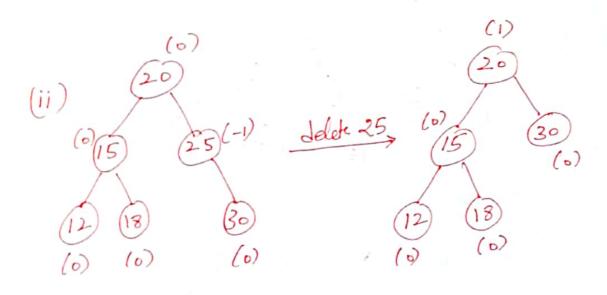
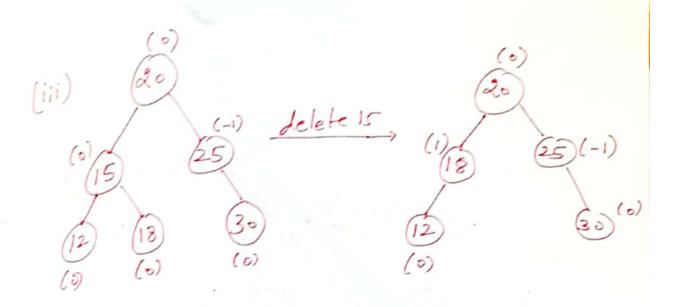
AVL TREE DELETION



Balanced. Hence No rotation.

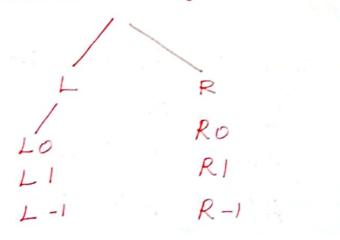


Balanced. Hence No Rotation



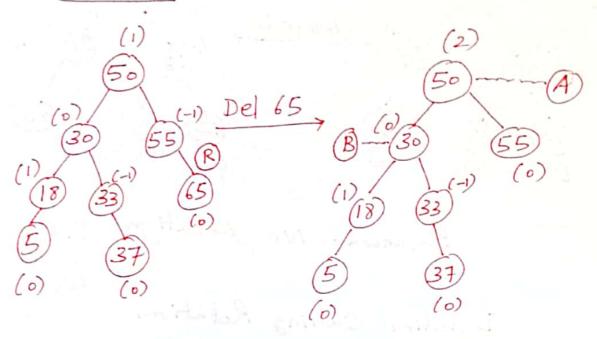
Balanced. No Rotation

Deletion Calling Rotations



RO Rotation

Example



Deletim is Right Child of Node A. Hence R'.

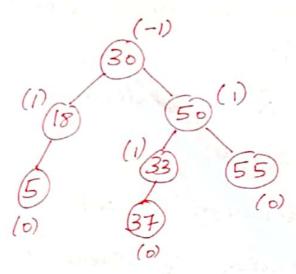
Left Sulfree root of A is called B.

: Bf of Bis O.

Hence classification is Ro.

Ro Rotation is 1 LL over A W.r. t. B.

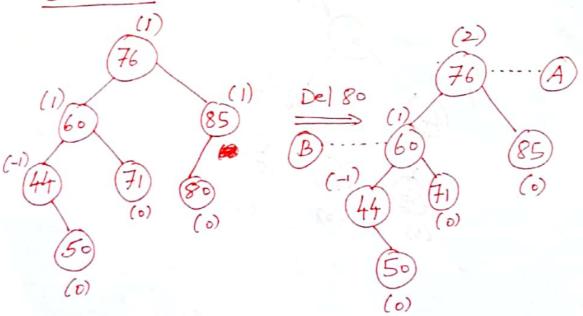
Doing RO



Balanced.

RI Rotation

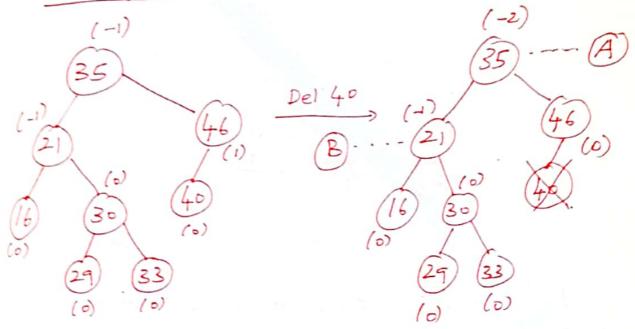
Example



Deletion is Right Child or Node A. ? Rotation Bf (B) =1. .. Rotation in R1 RI Rotation is same as RO (e) R) is LL Over A W.T.t. B. Doing RI

R-1 Rotation

Example



Deletion is Right child of A.

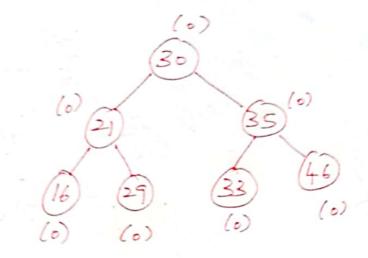
: R Rotation.

Bf (B) = -1

R-1 Imbalance

Doing LR over A.

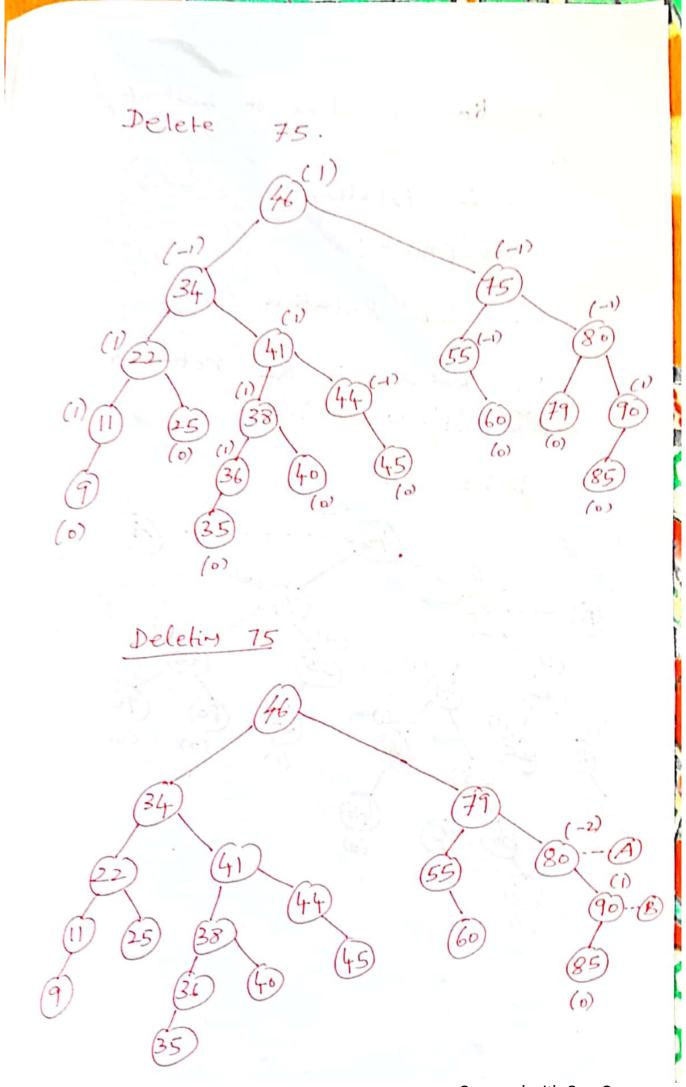
Duing R-1 Rotation



RO, RI - LL over A R-I - LR over A

Similarly,

Lo, L-1 - RR over A \$ L1 - RL over A



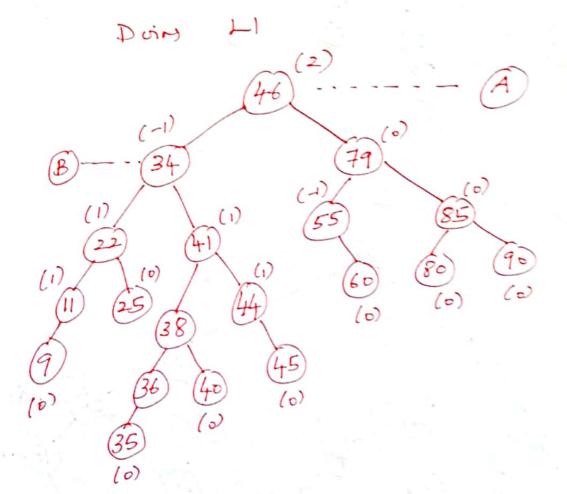
Deletion is done to Left of A.

: L Rotation.

Bf (B) = 1

: LI Rotation.

LI Rotation is RL rotation



Deletion is done to Right of

A:

Restation

Bf (B) = -1

Rotation:

R-1

Rotation

LR over A

R-1

Rotation is LR over A

