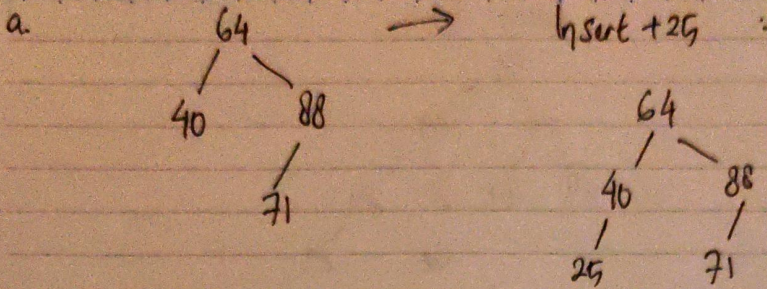


AVL Tree

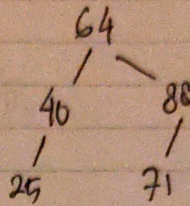
Raynald Anvan Lim (2802404583)

NO.

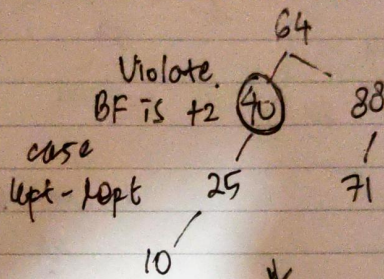
DATE



Insert +25 :

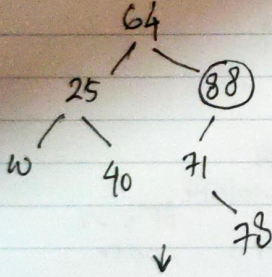


Insert +10 :



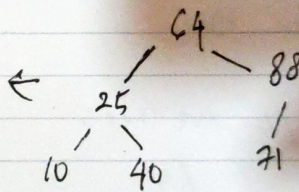
Solution:
LL Rotation
(single rotation)

insert +78 :

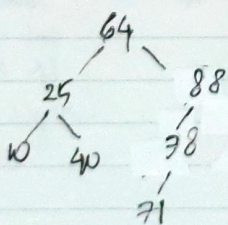


Violate.
BF is +2
case:
Left-Right

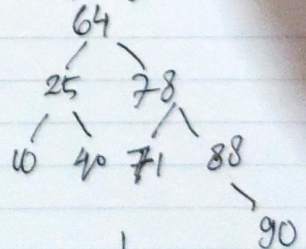
Solution:
RL Rotation (double rotation)



new AVL Tree will be :

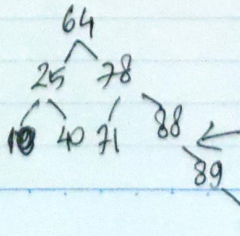
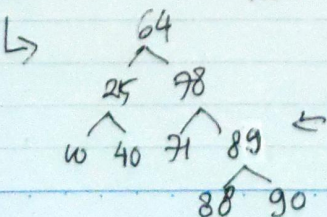


insert +90 :



Result :

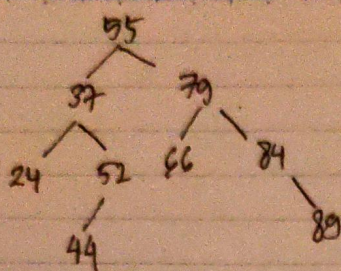
new AVL Tree :



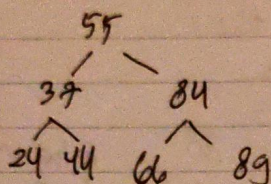
case:
Right-Left
sol:
LR Rotation
(double rotation)

Violate.
BF: -2

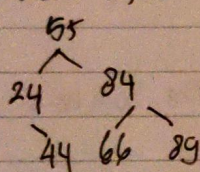
b.



A new AVL Tree:

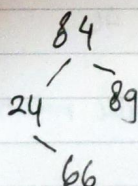


delete 37:

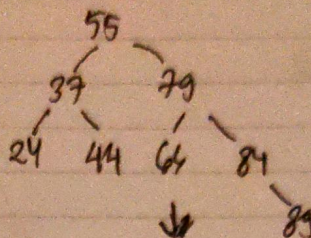


A new AVL Tree:

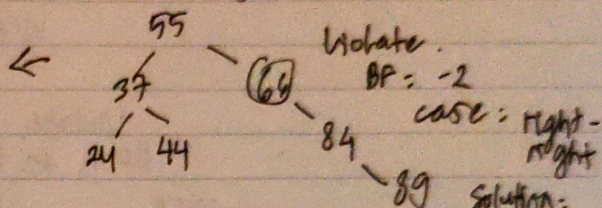
Result:



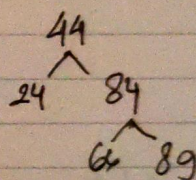
delete 52:



delete 79:



delete 55:



delete 44:

