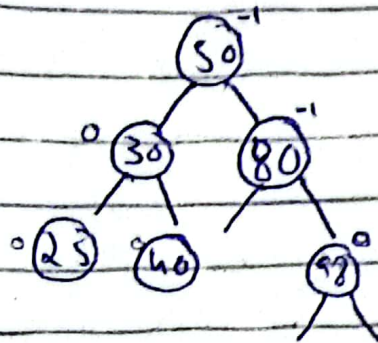


Data structures

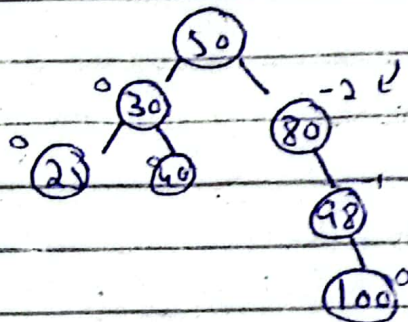
Q 3

L (a)



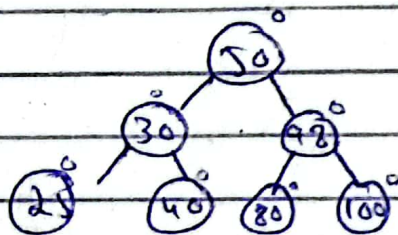
Now to insert 100 in it.

L



so at this point we need to do a ~~right~~ left rotation because it's a right right case.

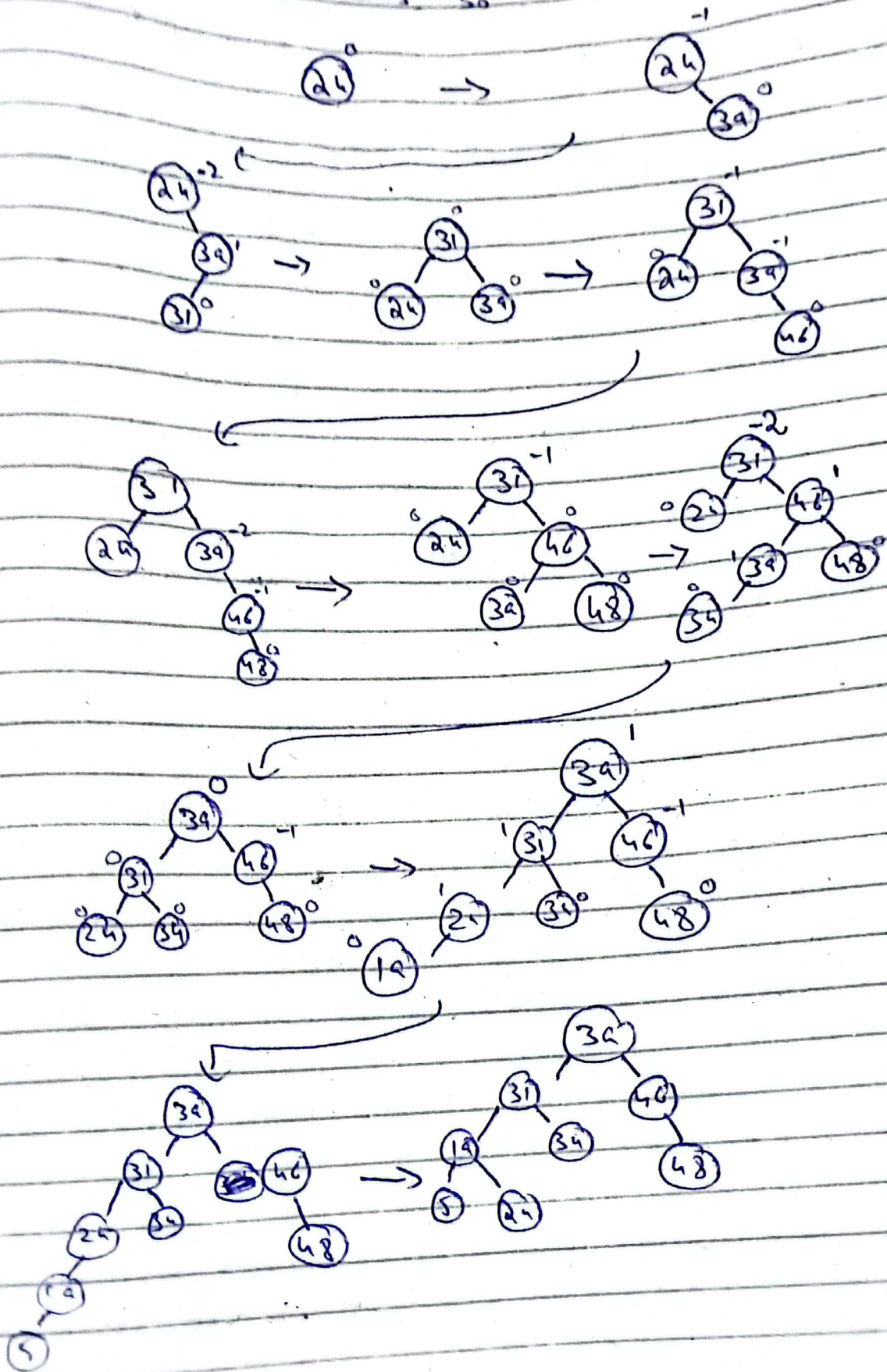
So we would apply a right rotation on (80).

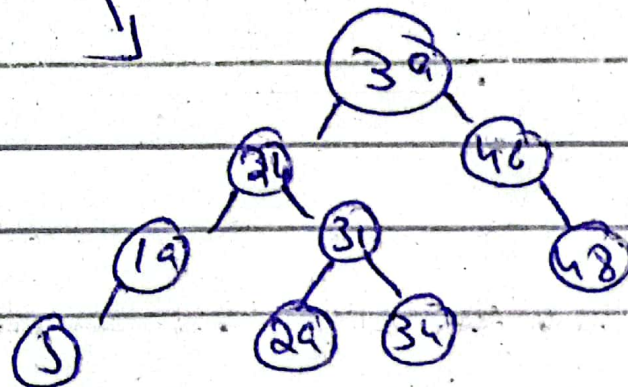
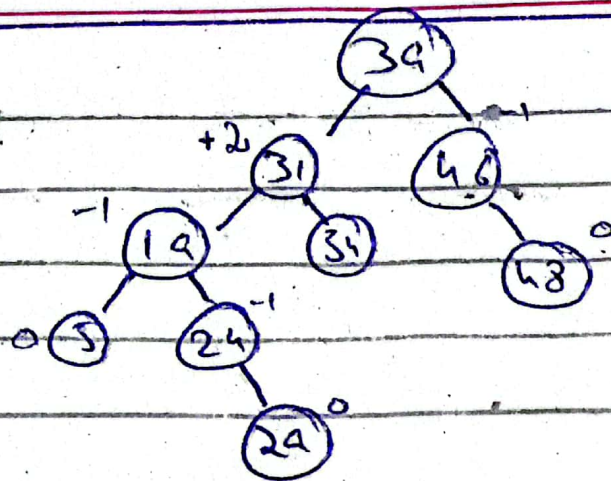


So now the tree is AVL, and the balance factor of root is 0.

(h)

We insert values so





Final tree.