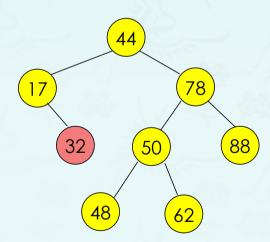
On my honor, I pledge that I have neither recieved nor provided improper assistance in the completion of this assignment.

-21900112 3/4/91

Homework

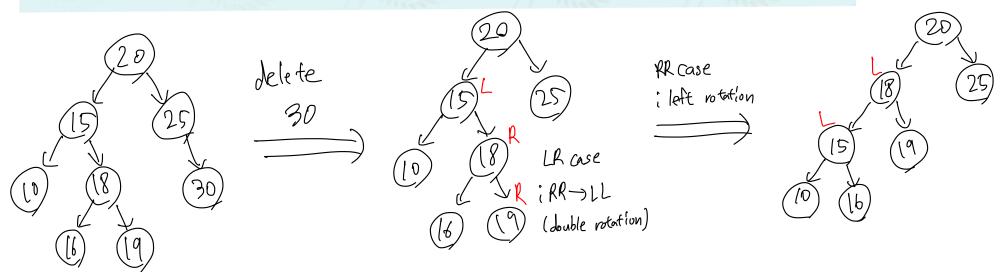
- Draw AVL trees whenever the tree changes its shape by insertion and deletion. Include trees before and after its rotation and the type of rotation.
- Tree가 모양을 **바꿀 때마다** AVL tree들을 그리고, 각 단계별로 LL, RR, LR, RL을 표시하여 제출하십시오.
- (1) Insert the sequence of elements (10, 20, 15, 25, 30, 16, 18, 19) into an AVL tree. Delete 30 in the AVL tree that you got above and rebalance it.
- (2) Delete 32 in the AVL tree shown below and rebalance it.

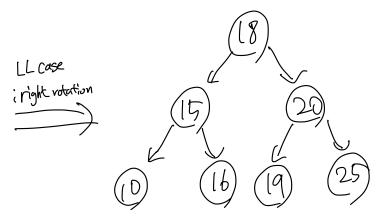
Check your answer with treex.exe.



(1) Insert the sequence of elements (10, 20, 15, 25, 30, 16, 18, 19) into an AVL tree. LL case insert ַ d (right votation) 20 KR case i single left notation RL case: LL > RR (double votation) AR cost insert insert (left rotation) laft rotation 20) (0)RR case: Single left rotation likert RR case Wease (o) (D) ! left votation i right rotalism (LL-) RR (double votation) (II) left rotation (0) RR case: rotation

Delete 30 in the AVL tree that you got above and rebalance it.





(2) Delete 32 in the AVL tree shown below and rebalance it.

