

## Trinode Restructuring after Insertion: L-R Rotations



- Insert the following sequence of **keys** into an empty BST:  
<44, 17, 78, 32, 50, 88, 48, 62>
- Insert 54 into the BST.

Exercise

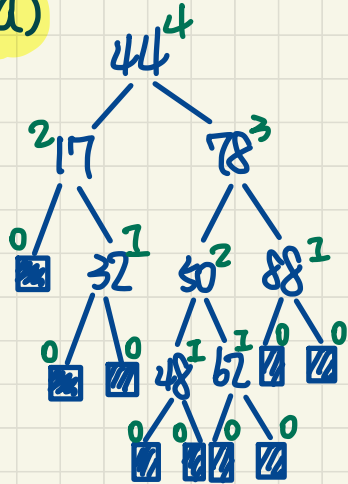
# Trinode Restructuring after Insertion: L-R Rotations

Solution



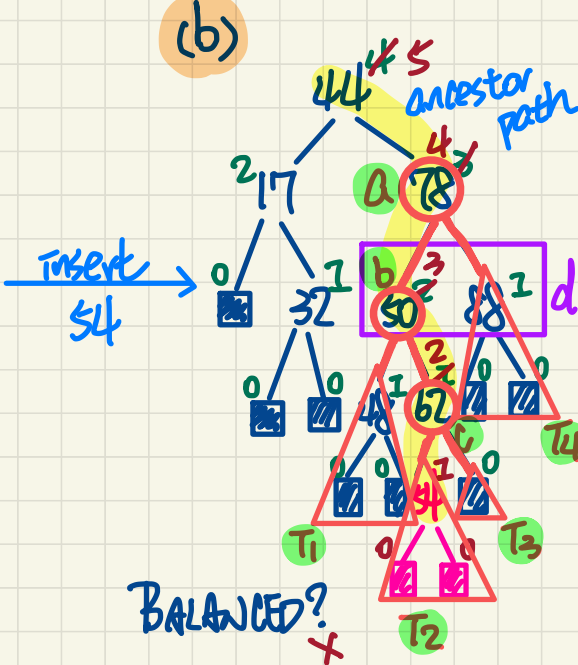
- Insert the following sequence of **keys** into an empty BST:  
 $\langle 44, 17, 78, 32, 50, 88, 48, 62 \rangle$
- Insert **54** into the BST.

(a)

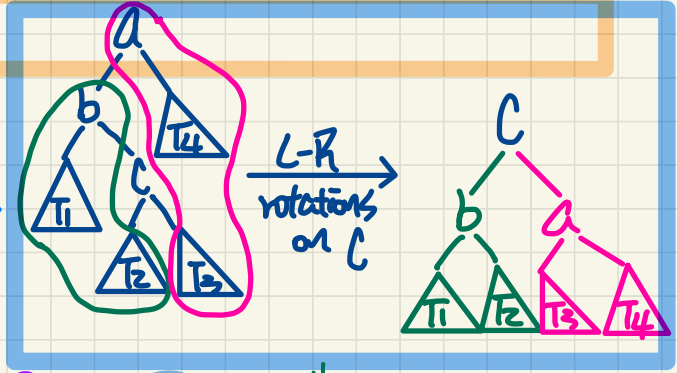


BALANCED? ✓

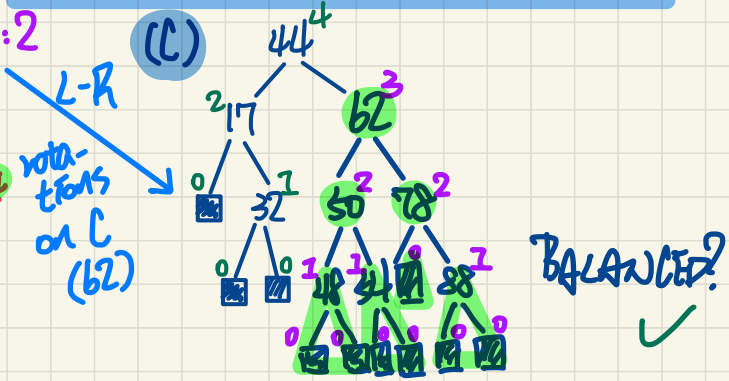
(b)



BALANCED? ✗



(c)



BALANCED? ✓