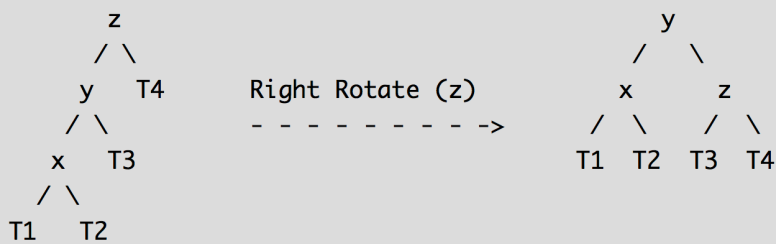


Re-balance the tree by performing appropriate rotations on the subtree rooted with z. There can be 4 possible cases that needs to be handled as x, y and z can be arranged in 4 ways. Following are the possible 4 arrangements:

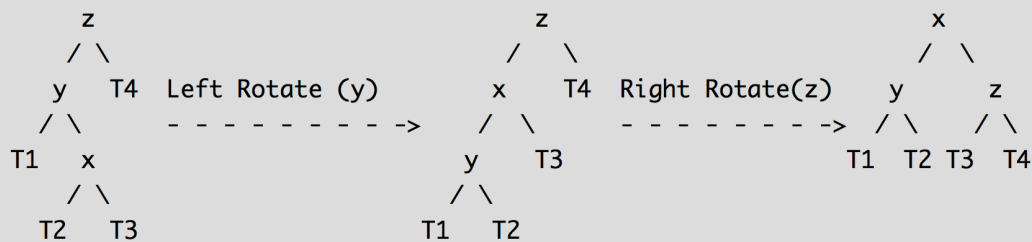
- y is left child of z and x is left child of y (Left Left Case)
- y is left child of z and x is right child of y (Left Right Case)
- y is right child of z and x is right child of y (Right Right Case)
- y is right child of z and x is left child of y (Right Left Case)

a) Left Left Case

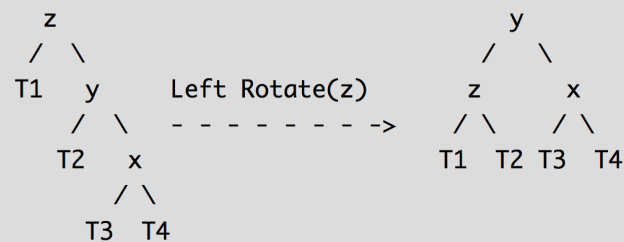
T1, T2, T3 and T4 are subtrees.



b) Left Right Case



c) Right Right Case



d) Right Left Case

