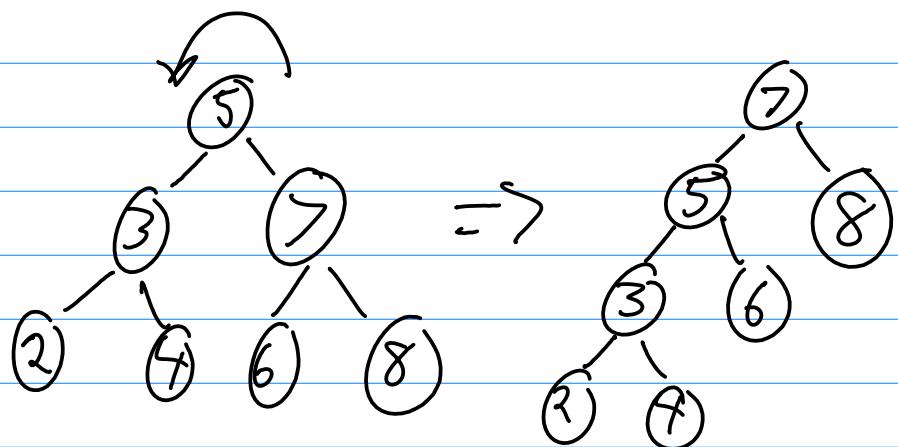
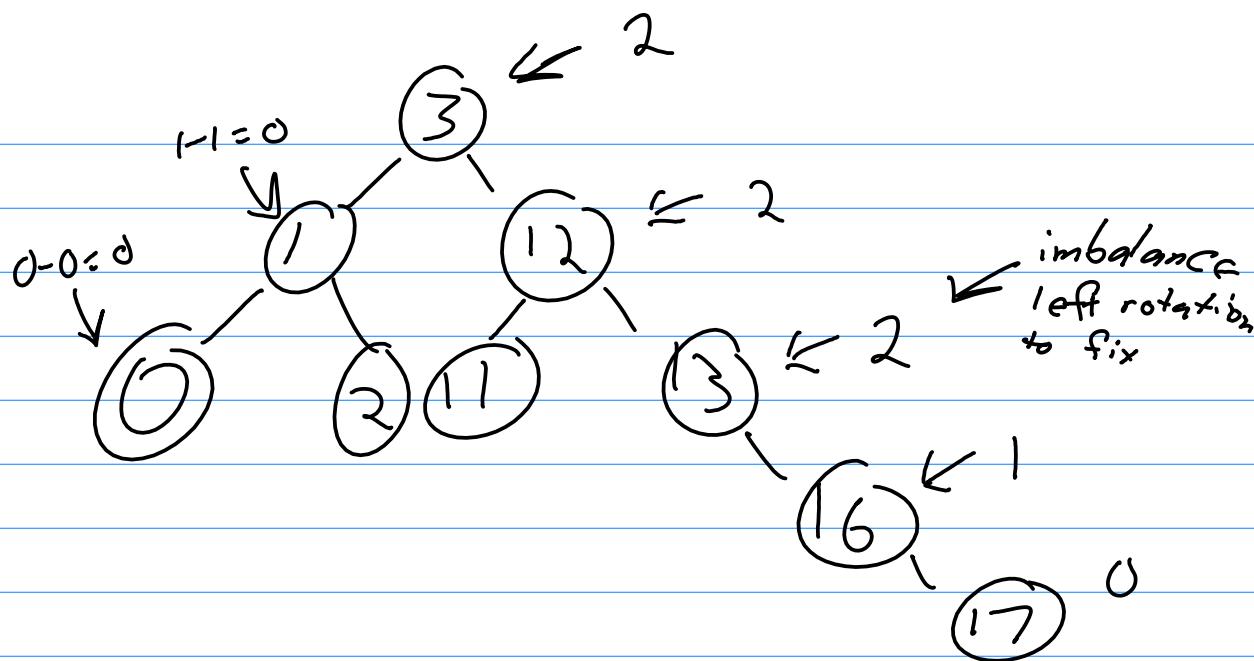


right rotation : move node down
 to position of right child,
 move left child to old position
 of node, and move left child's
 right child to be left child
 of node

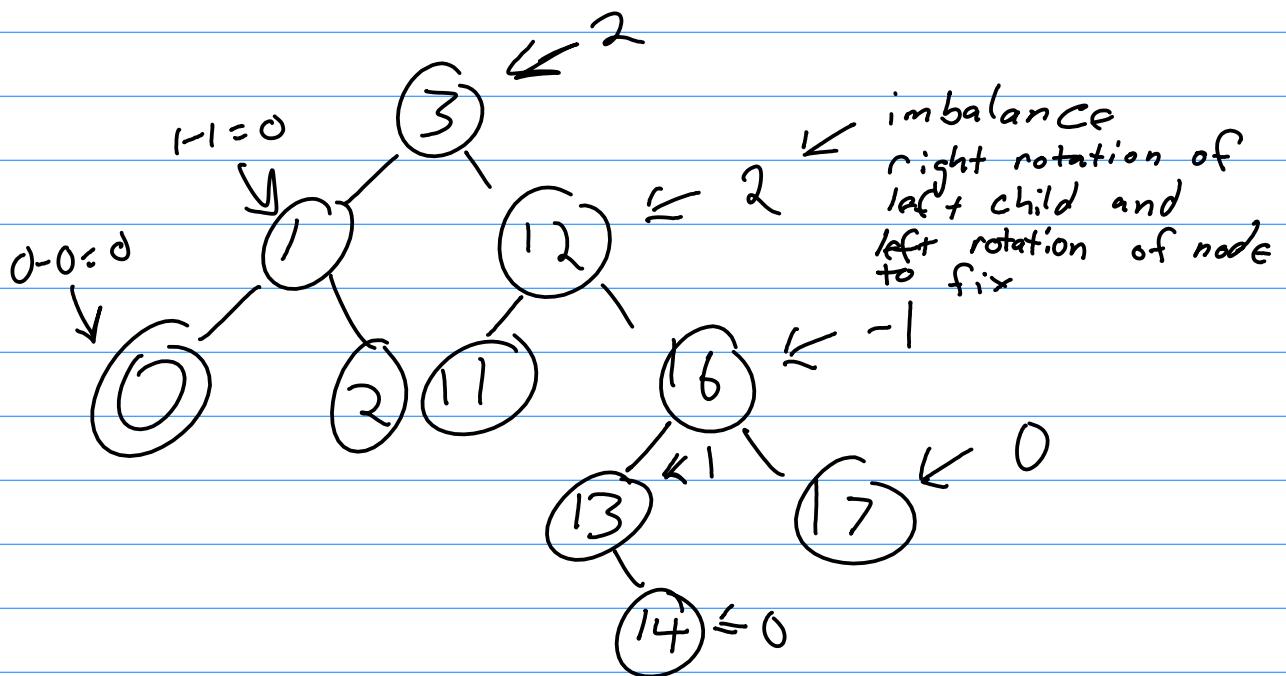


left rotation : move node down
 to position of left child,
 move right child to old position
 of node, and move right child's
 left child to be right child
 of node

Balance factor: length of longest path
 from node through right child minus
 length of longest path from node
 through left child



for an AVL tree, it is balanced
if there are no nodes with a balance
factor of absolute value greater than 1



balanced AVL Tree

