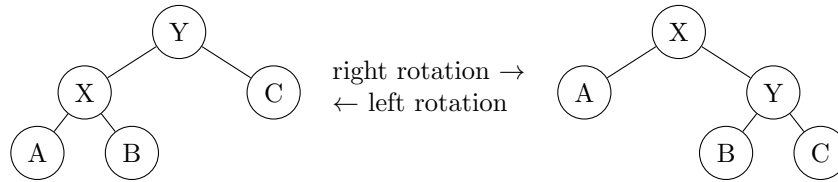
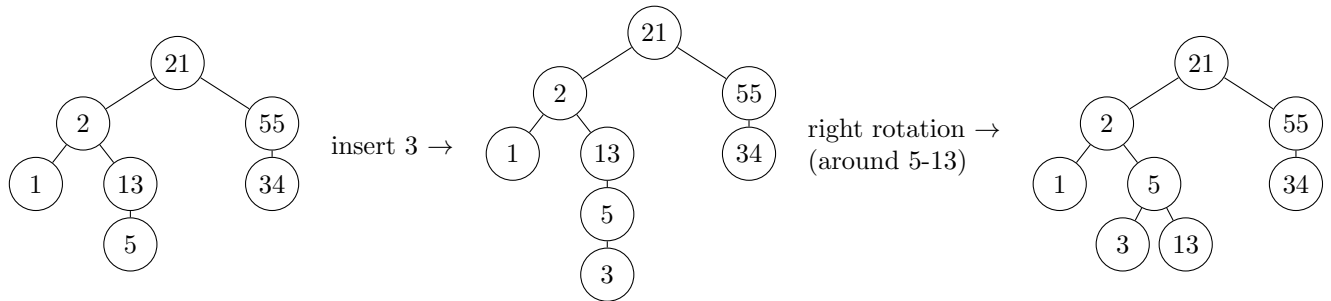


Lecture 07

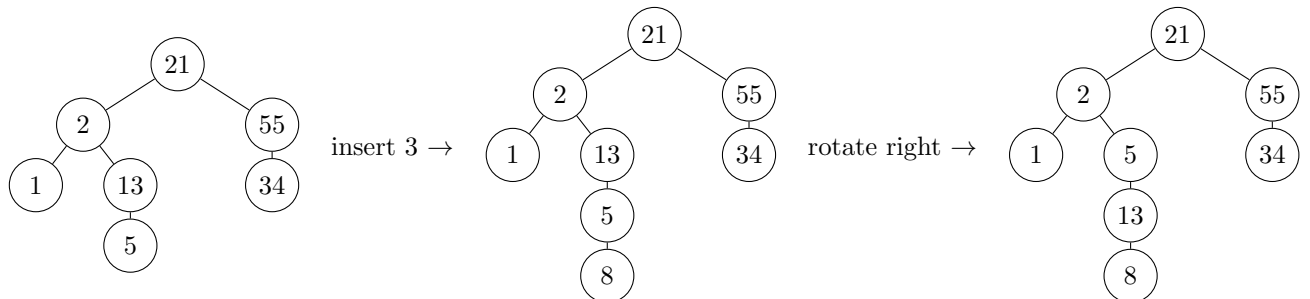
AVL Trees



- Three references to change: parent's left/right, y.left, x.right
- Decreases depth of subtree A, increases depth of subtree C



- computing height takes time $\Theta(s)$ where s = size of subtree
- instead, have each node store node.height (for subtree rooted at node)



Problem: rotation does not fix balance \rightarrow double rotation!

