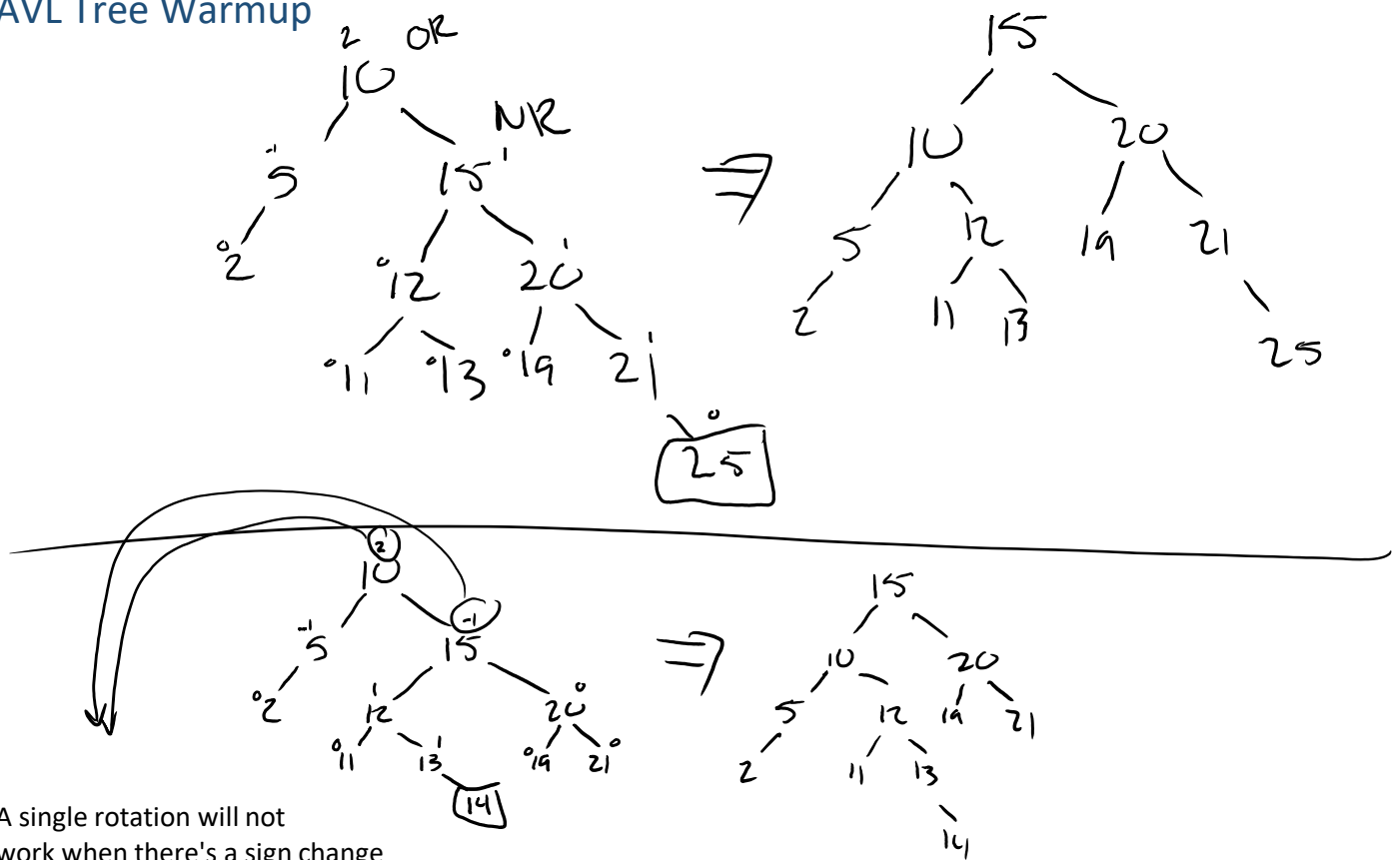


2019-03-14 AVL Trees Part 2

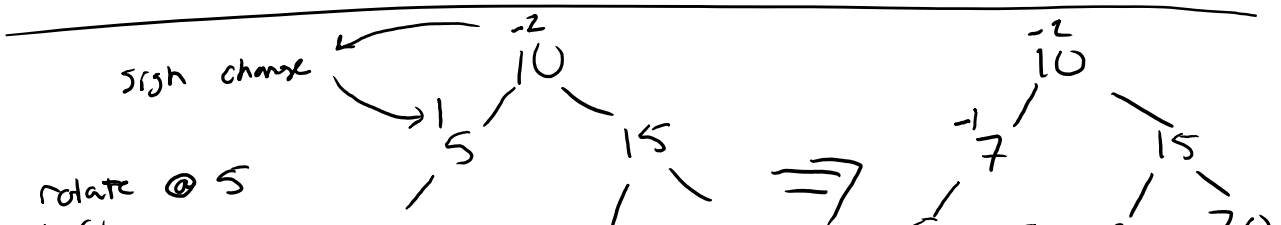
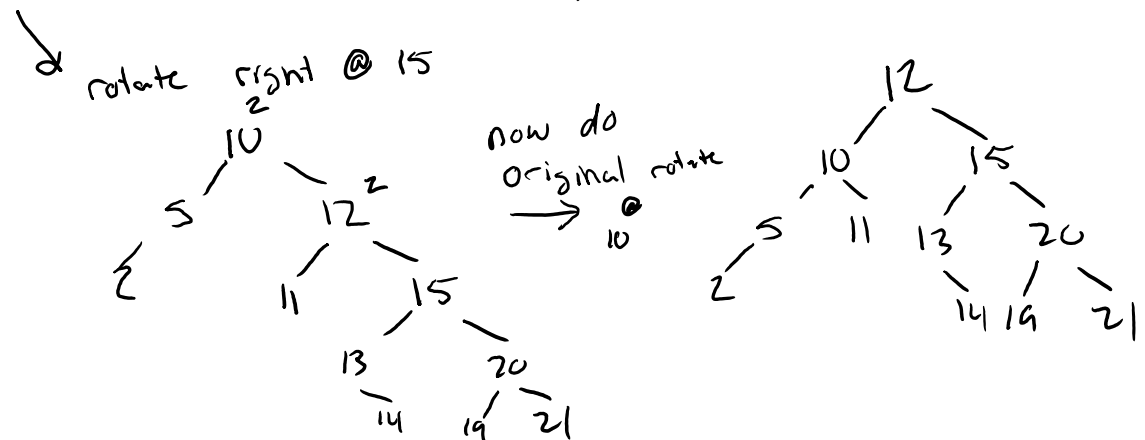
Thursday, March 14, 2019 8:59 AM

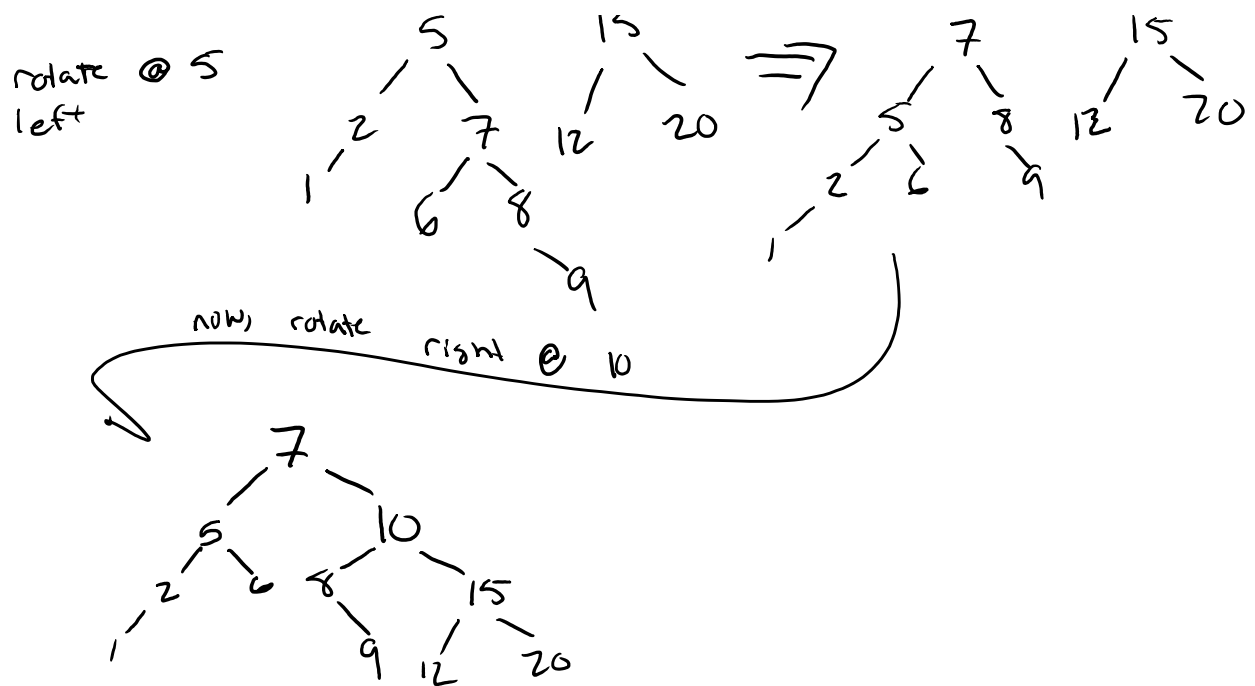
AVL Tree Warmup



A single rotation will not work when there's a sign change (either + to -; or - to +)

We must correct this sign change before we can do our rotation. (This requires another rotation somewhere else in the tree)





Recap

- A single left rotation only balances a tree when the balance factor of right child is positive
- A single right rotation only balances a tree when the balance factor of left child is negative
- When the balance factor of imbalanced node is positive and its right child is negative
 - Rotate right at imbalance's right child
 - Then, we would rotate left at imbalance
- When the balance factor of imbalanced node is negative and its left child is positive
 - Rotate left at imbalance's left child
 - Then, we would rotate right at imbalance