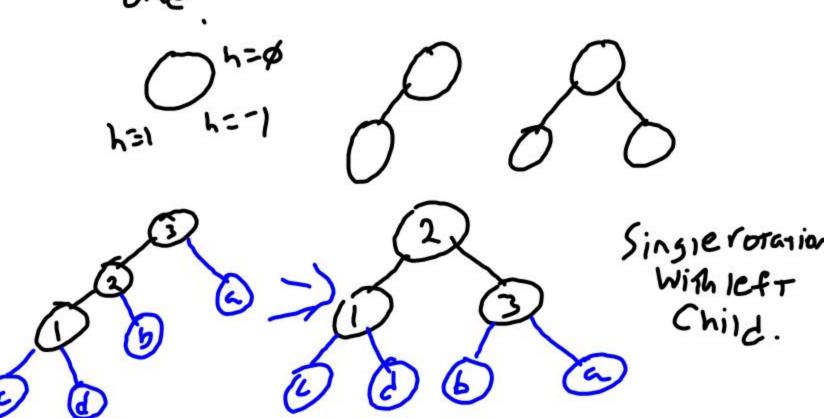
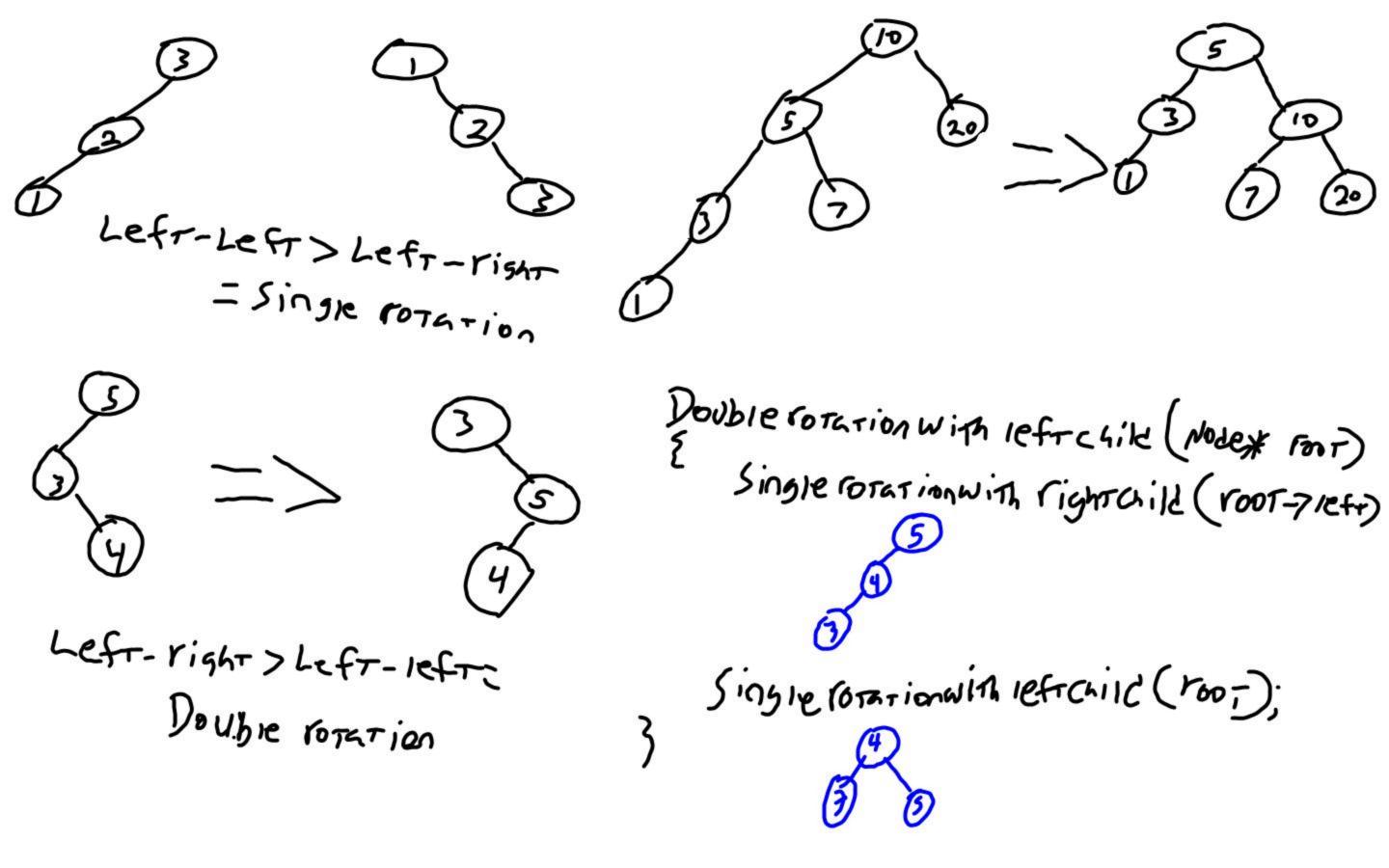
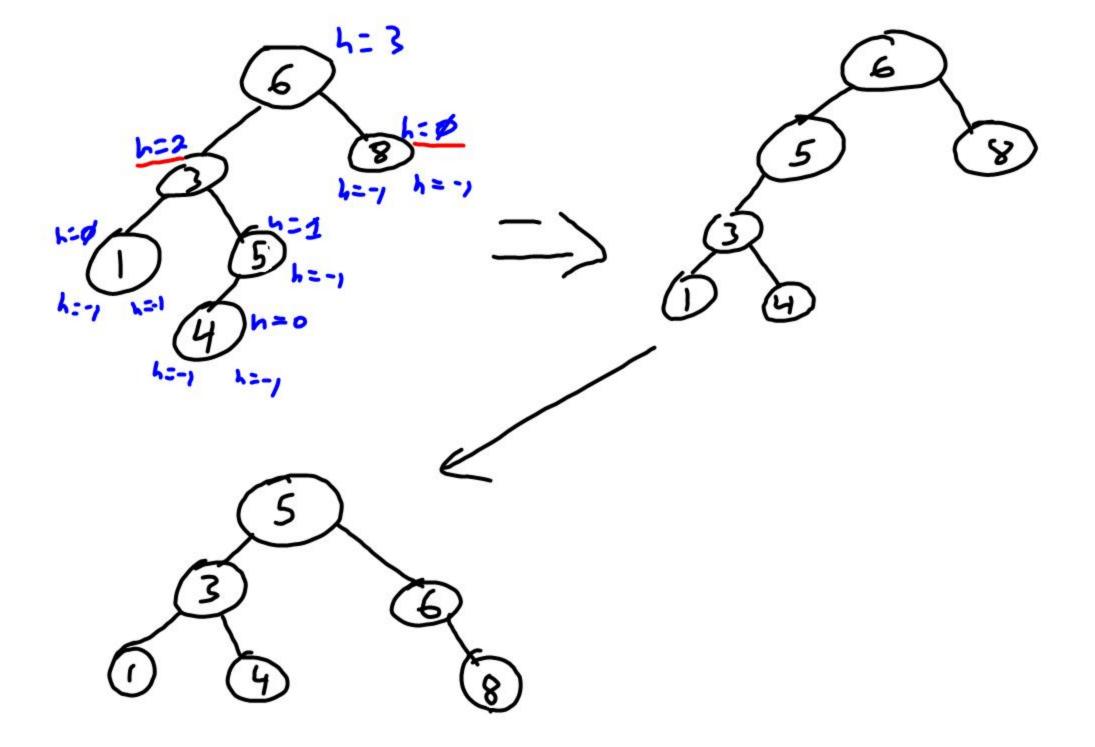


Balanced Binary Search Thee.

AVL Tree-Binary search tree with the balance Property that the height of the left and right Subchik campt differ by more than one

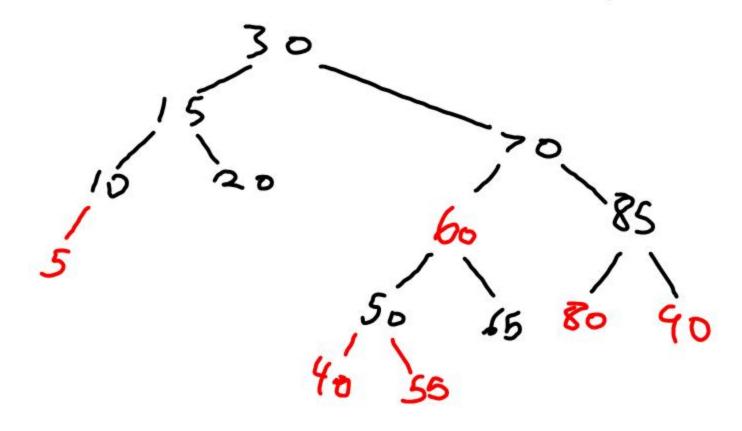






Red-BILLE Trees

- 1) Every node has a color, red or buck.
- 2) root is always black.
- 3) If a node is red, it's Children MUST be black.
- 4) Every Path from a node to a rull must graverse the same number of black nodes!



HOW TO IMPLEMENT: 1) new nodes are a lucys colored red. a) Parent is Brack = Done b) Parent is red = Problem i) if uncle is black (null is black) A) if new node is outside - Single 10 TATION (GRADAMENT) B) if new note is inside - Double rotation (GRANDRICHT) 11) if uncle is red-AvoID/ tmassible. 2) As You go DOWN TO find the insertion Point if You encounter a Black Parent with two red children recolor to red Parent with two black children if Grandparent is red, rotate.

