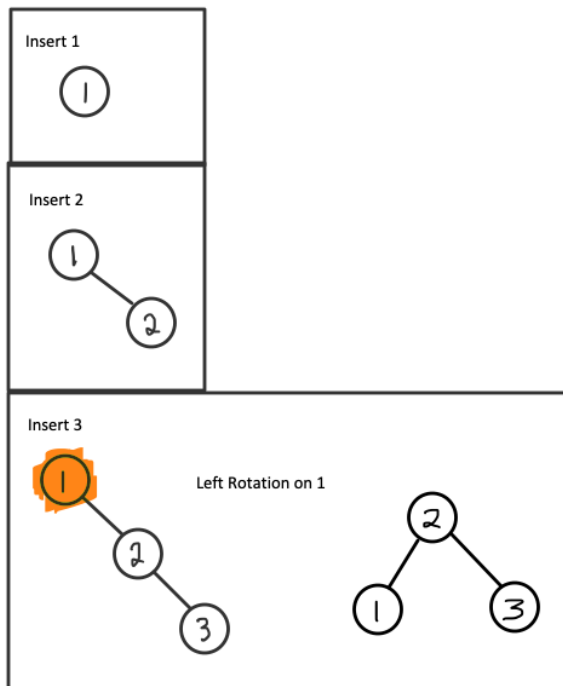


Homework 5

AVL Worksheet

Answer the following questions by neatly drawing the tree after each insertion. Scan / screenshot your drawings into your submission .pdf document. Submit the assignment to the github repo with a file named <lastname><first initial of firstname>_hw5.pdf e.g. "fischerb_hw5.pdf". For each rotation, label which rotation needs to occur (L, R, LR, RL) and mark the unbalanced node. Draw a box around each step.

Example: Insert 1, 2, 3



1. Insert: 1, 2, 3, 7, 8, 6, 4, 10, 5, 9, 11
2. Insert: 13, 6, 12, 18, 24, 32, 33, 17, 16, 15, 14
3. Insert: 21, 3, 4, 8, 10, 9, 2, 6, 5, 7