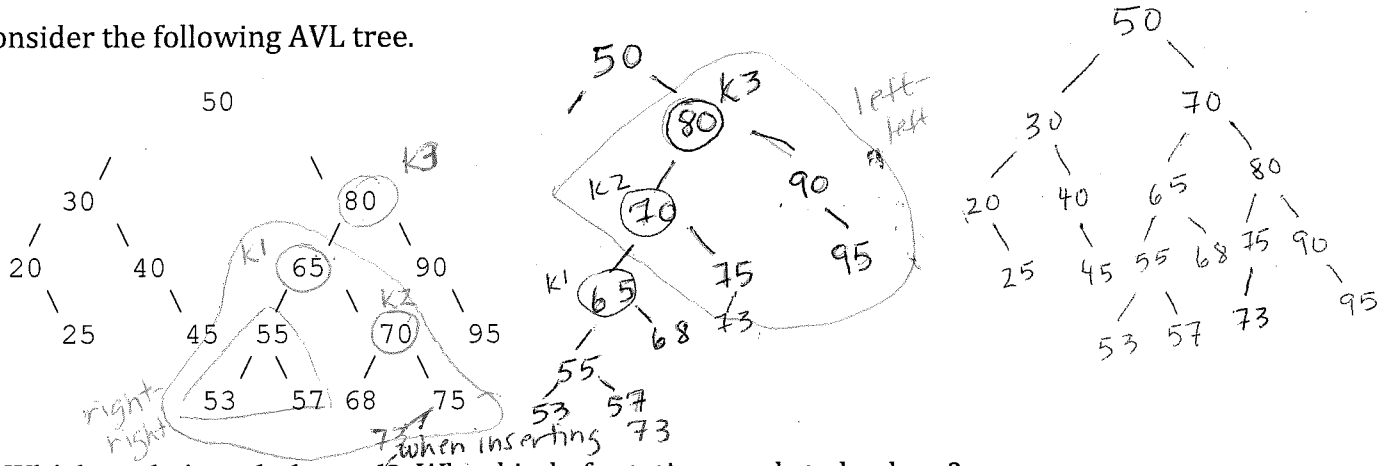


KEY

Homework

Use 8 1/2 by 11 inch paper. Always show all work.

Consider the following AVL tree.



1. Which node is unbalanced? What kind of rotation needs to be done?

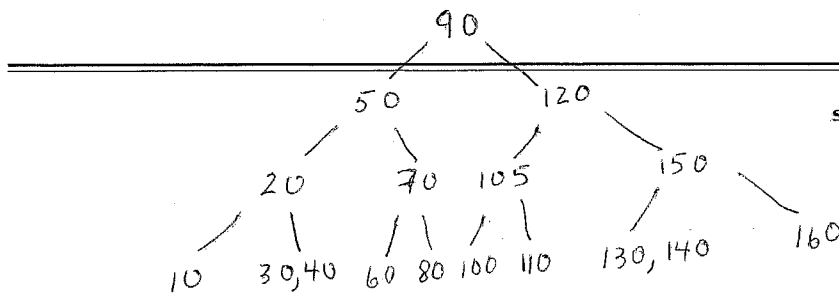
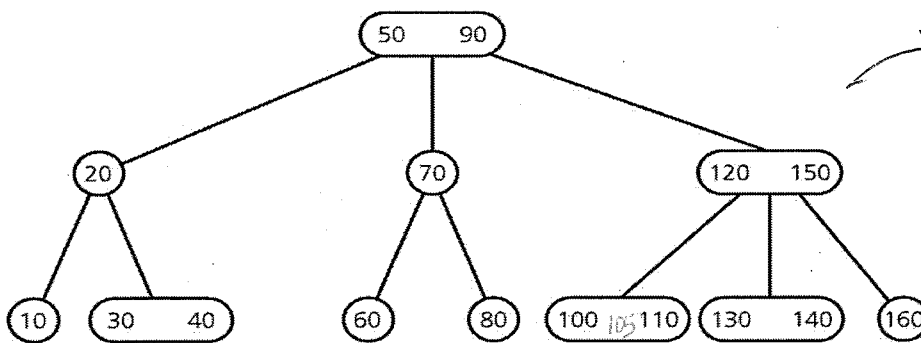
80 left-right

2. Show the balanced tree after the insertion of 73.

3. Draw the generic picture of a right-left double rotation similar to the left-right double rotation shown in the notes on the bottom of page 5. Show both single rotations.

4. Insert 105 into the following 2-3 tree. Show each step.

Example of 2-3 Tree



Slide 6

