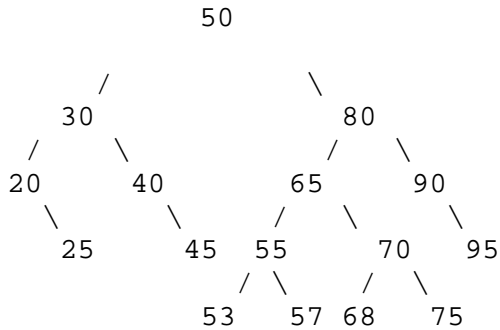


## Homework

Consider the following AVL tree.



1. Which node is unbalanced when inserting 73? What kind of rotation needs to be done?
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

