Homework 4: Continue drawing the AVL trees after each of the following numbers are inserted in order to an empty tree. Draw the tree after each number is inserted. If the insertion involves rotation, draw the trees before and after the rotation and mark the type of rotation performed.

100, 80, 30, 90, 95, 92, 20, 93, 94, 91

Answer:

100

AVL tree after insert 100:

100

AVL tree after insert 80:

80

Tree after insert 30 (before rotation)

100

80

30

80

AVL tree after insert 30 (single rotation)

30

100

Your task: continue drawing the trees for inserting 90, 95, 92, 20, 93, 94, 91 (in order) to the last tree.