

Computer Science I – Spring 2012
Lab: AVL Trees

1. Insert the following elements on an AVL tree. If the tree becomes unbalanced, balance the tree and redraw the tree:

a) 50, 30, 75, 80, 92

b) 60, 82, 37, 90, 12

c) 65, 90, 20, 80, 72

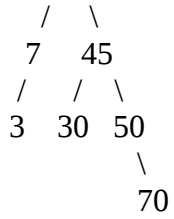
d) 55, 95, 23, 81, 12, 63

e) 62, 50, 70, 40, 65, 26

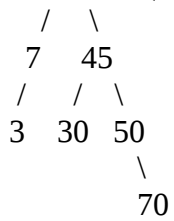
f) 50, 25, 12, 80, 90, 37, 45, 18, 19, 6

2. Draw the result of deleting the designated value from the AVL trees shown below:

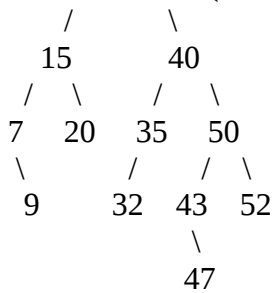
a) 10 (Delete 3)



b) 10 (Delete 30)



c) 30 (Delete 35)



d) 30 (Delete 20)

