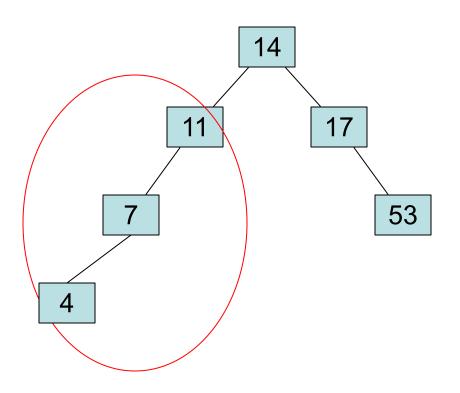
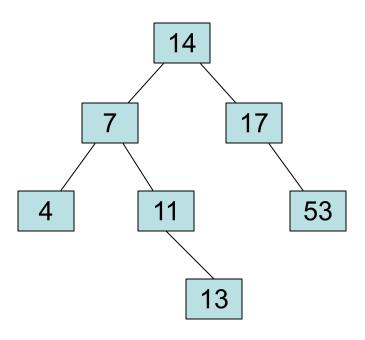
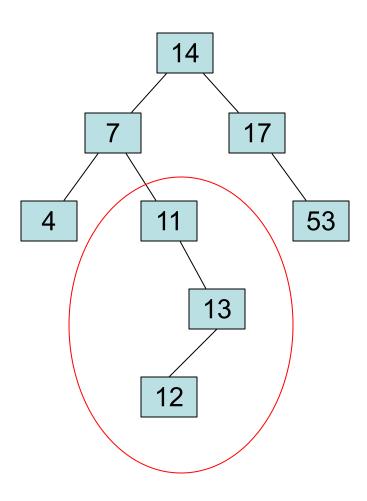
• Insert 14, 17, 11, 7, 53, 4, 13 into an empty AVL tree



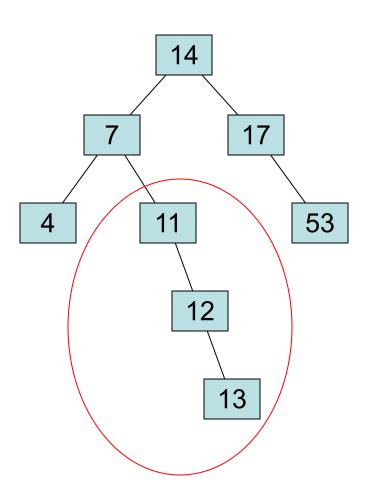
• Insert 14, 17, 11, 7, 53, 4, 13 into an empty AVL tree



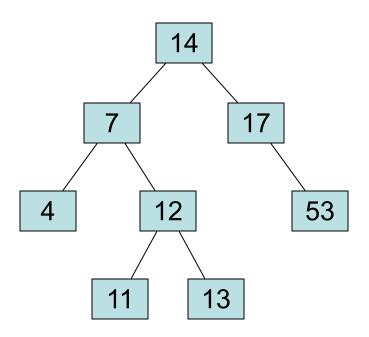
Now insert 12



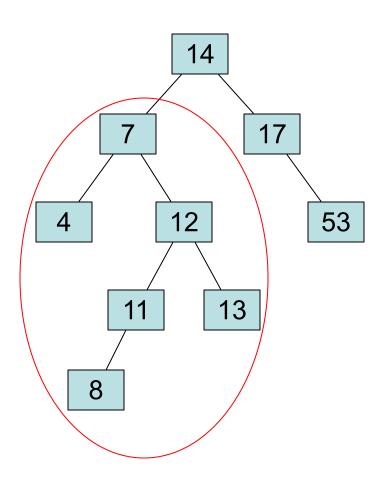
Now insert 12



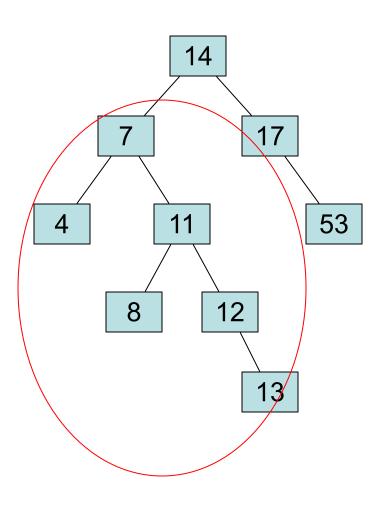
• Now the AVL tree is balanced.



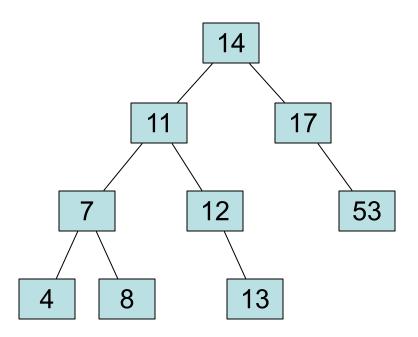
• Now insert 8



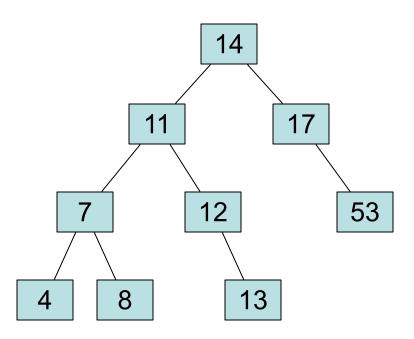
• Now insert 8



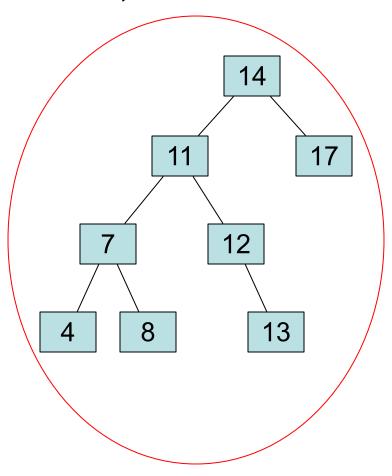
• Now the AVL tree is balanced.



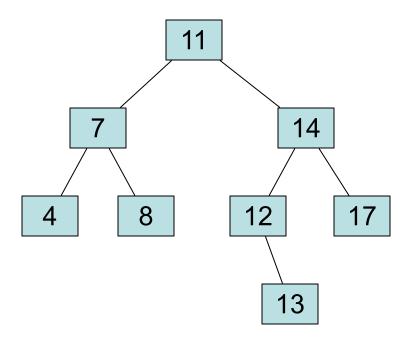
• Now remove 53



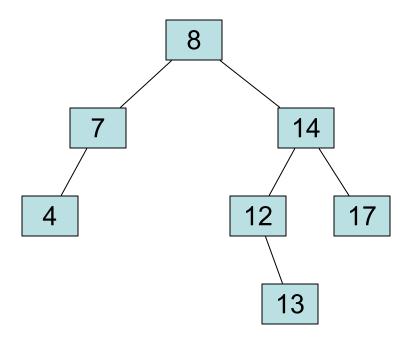
• Now remove 53, unbalanced



• Balanced! Remove 11

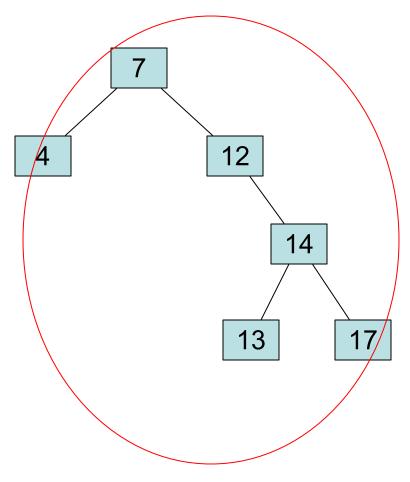


• Remove 11, replace it with the largest in its left branch

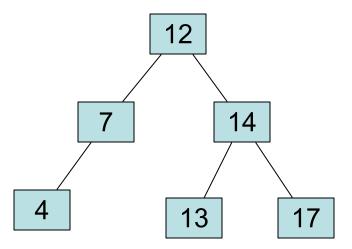


• Remove 8, unbalanced

• Remove 8, unbalanced



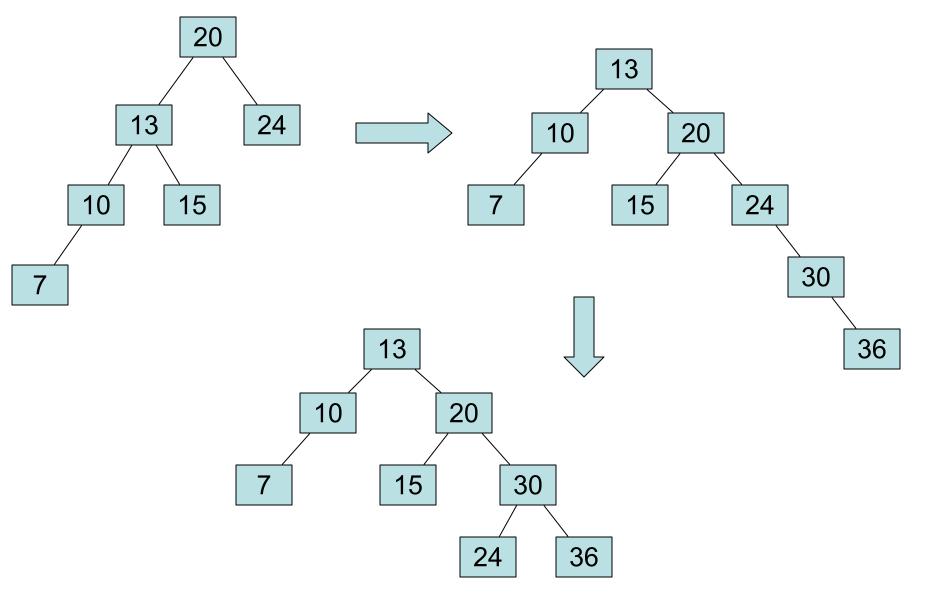
• Balanced!!



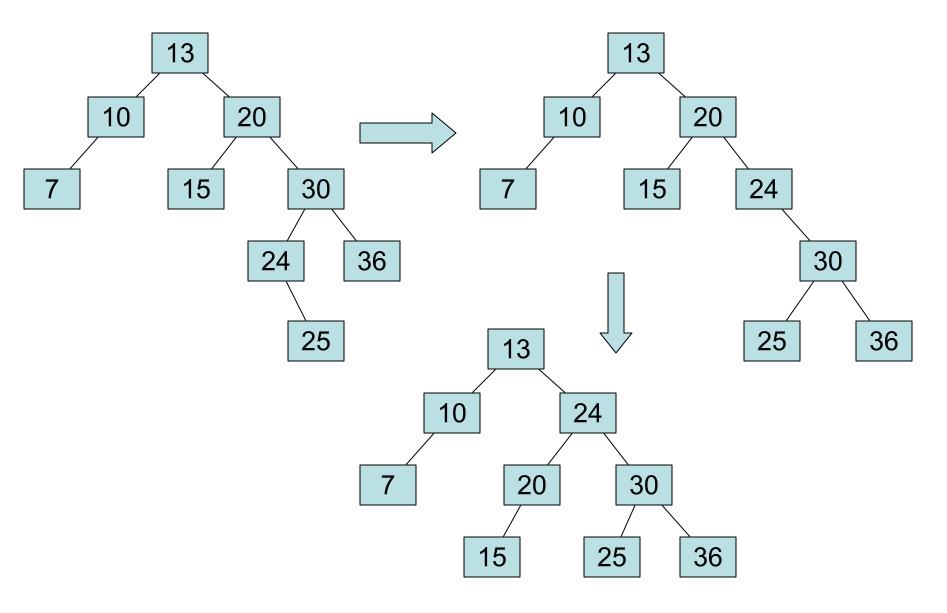
In Class Exercises

Build an AVL tree with the following values:
15, 20, 24, 10, 13, 7, 30, 36, 25

15, 20, 24, 10, 13, 7, 30, 36, 25



15, 20, 24, 10, 13, 7, 30, 36, 25



Remove 24 and 20 from the AVL tree.

