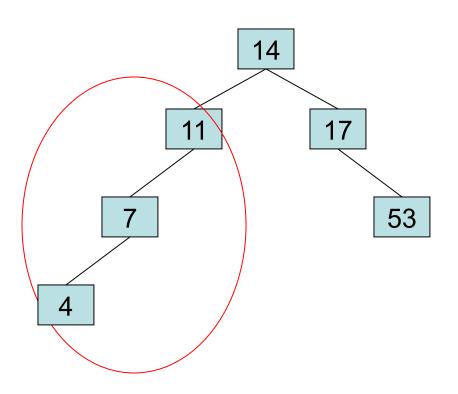
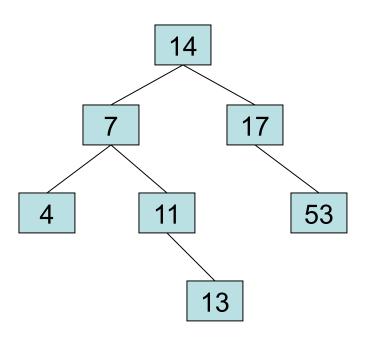
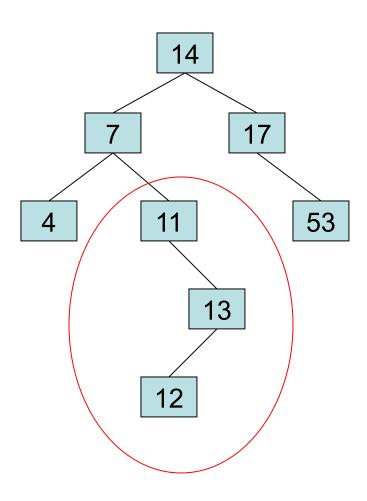
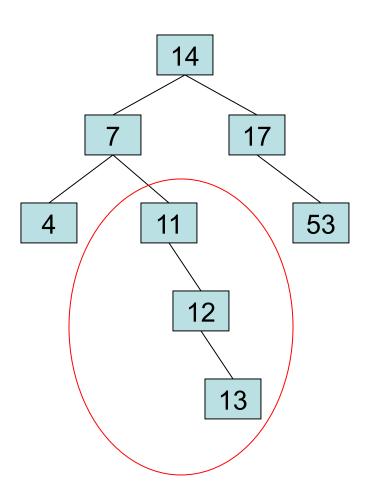
• Insert 14, 17, 11, 7, 53, 4, 13 into an empty AVL tree



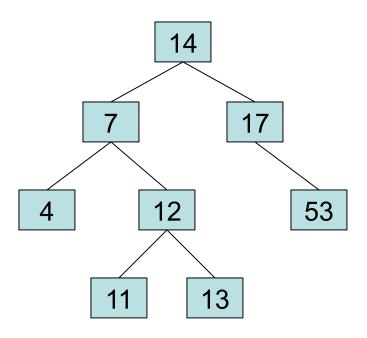
• Insert 14, 17, 11, 7, 53, 4, 13 into an empty AVL tree

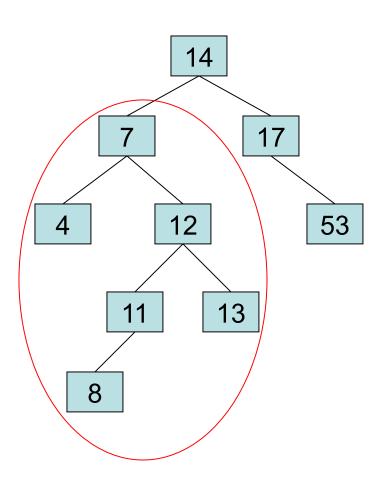


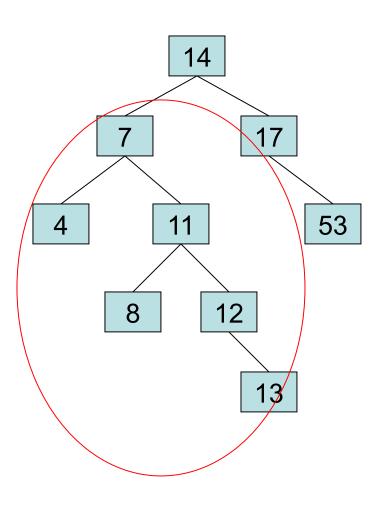




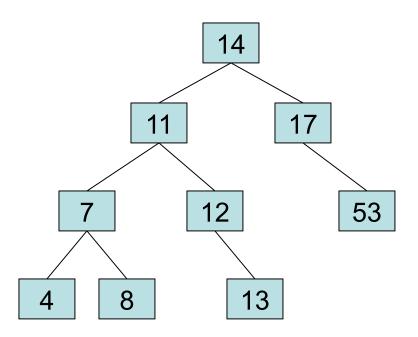
Now the AVL tree is balanced.



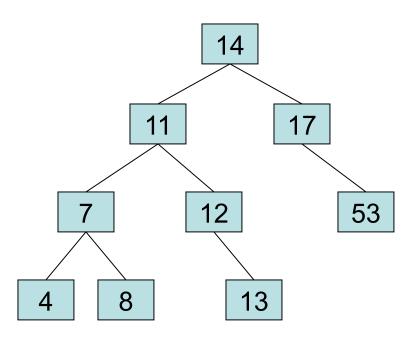




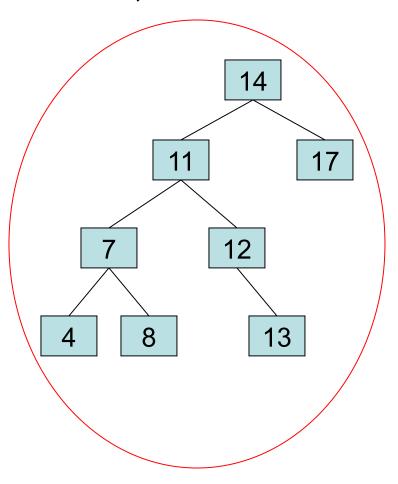
Now the AVL tree is balanced.



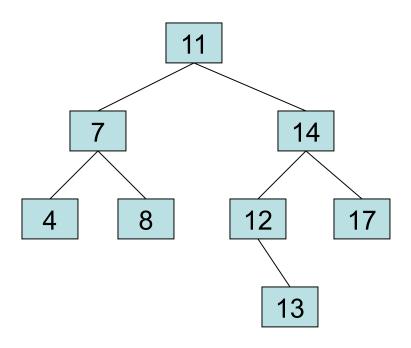
Now remove 53



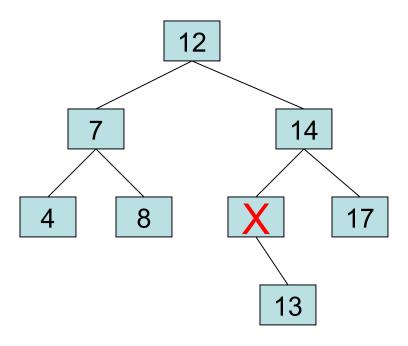
Now remove 53, unbalanced



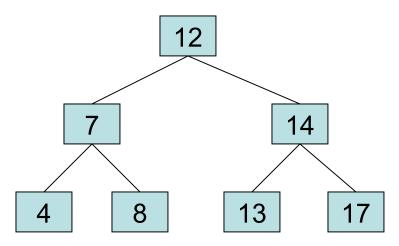
Balanced! Remove 11



 Remove 11, replace it with the successor (smallest in its right branch)

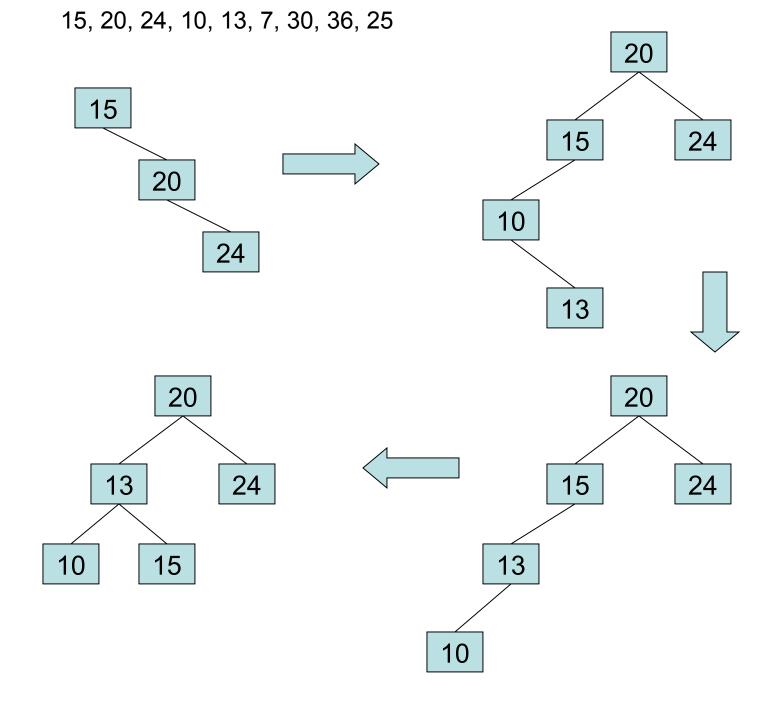


- Remove 11, remove the successor
- Balanced!!

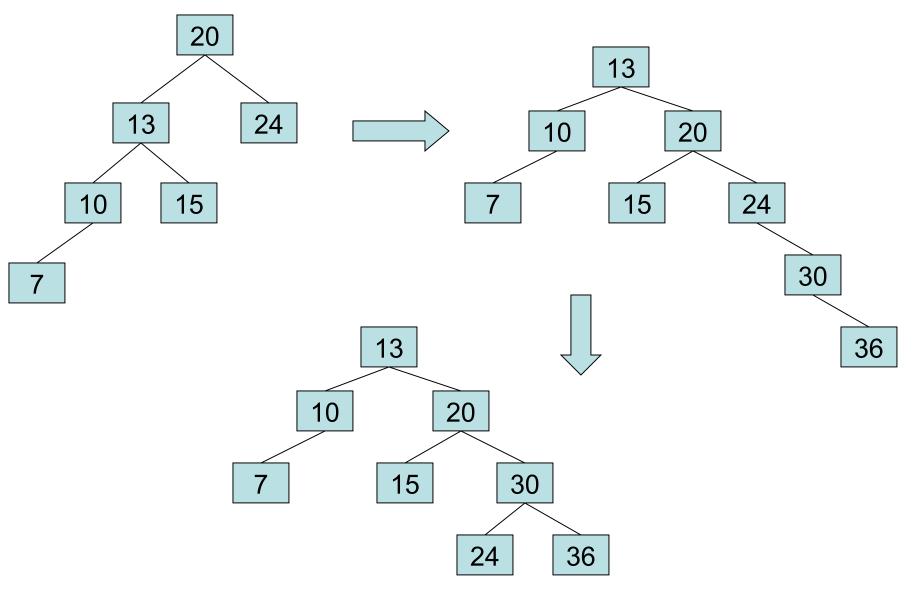


# In Class Exercises

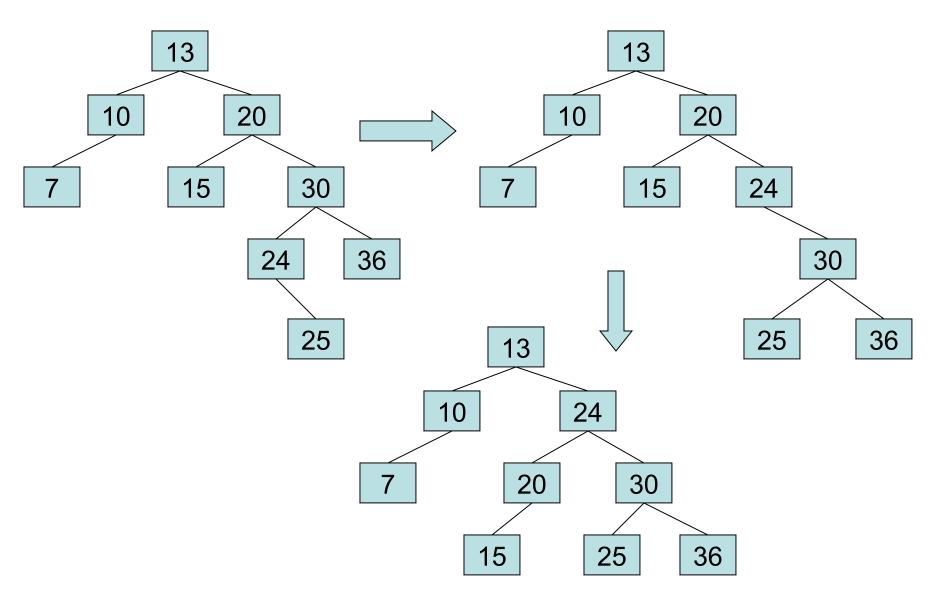
Build an AVL tree with the following values:
15, 20, 24, 10, 13, 7, 30, 36, 25



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.

