HW8

(deadline :2019/12/19)

手寫題：

2. Balance the AVL tree in Figure 8-18. Show the balance factors in the result.
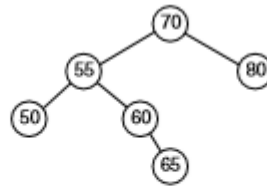

FIGURE 8-18   Figure for Exercise 2

4. Add 68 to the AVL tree in Figure 8-19. The result must be an AVL tree. Show the balance factors in the resulting tree.

FIGURE 8-19   Figure for Exercises 3 and 4

6. Create an AVL tree using the following data entered as a sequential set. Show the balance factors in the resulting tree:

        14 23 7 10 33 56 80 66 70

8. Create an AVL tree using the following data entered as a sequential set. Show the balance factors in the resulting tree:

        80 70 66 56 33 23 14 10 7

請以第 10 題為題目作答，第 7 題為第 10 題所需，所以另外提供。

10. Insert 44 and 50 into the tree created in Exercise 7.

7. Create an AVL tree using the following data entered as a sequential set. Show the balance factors in the resulting tree:

7 10 14 23 33 56 66 70 80

14. Write an iterative version of Algorithm 8-1, "AVL Tree Insert."