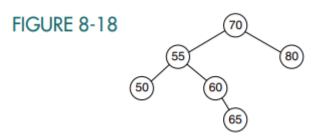
Handwriting

1. (15%) Balance the AVL tree in Figure 8-18. Show the balance factors in the result.



(20%) 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.



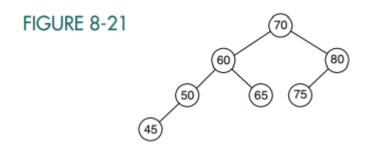
3. (15%) Create an AVL tree using the following data entered as a sequential set. Show the balance factors in the resulting tree:

4. (15%) Create an AVL tree using the following data entered as a sequential set. Show the balance factors in the resulting tree:

5. (20%) Create an AVL tree using the following data entered as a sequential set:
7 10 14 23 33 56 66 70 80

And then Insert 44 and 50 into the tree created above.

6. (15%) Delete the node containing 80 from the AVL tree in Figure 8-21.



Submission - Deadline: 2022/12/16 13:20

題目形式:

- 手寫題可以用手寫拍照、打字的方式完成,但最後要統一轉成.pdf檔繳交。 檔名為HW8_學號.pdf。例如: HW8_0123456.pdf
- 請於作業開頭標註學號與姓名, 若無法判定作業是出自於本人, 以檔名錯誤論。

繳交方式:

- 將上述共一個檔案(手寫題pdf檔*1)直接上傳至e3。
- 檔名 / 格式錯誤者最後會扣該次作業總分10分。

收作業規則:

- 遲交期限為一個禮拜可開放補交, 超過就不接受補交。
- 遲交以檔案為單位, 若某檔案遲交, 則該檔案打七折, 其餘檔案不受影響。
- 作業是否遲交會以最後繳交時間為判斷依據,因此即使在截止前就繳交檔案,若之後 又去修改檔案,仍會被視為遲交。
- 請務必重新整理,確認檔案已成功上傳至e3。

如有任何問題, 麻煩從e3來信給所有助教。