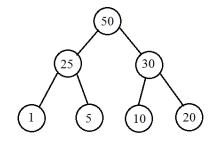
Data Structure 作業 2

(請寫計算過程, 一題1分)

姓名: 學號:

- 1.依序輸入 6 筆資料,劃出其 Binary Search Tree,說明 A,B,C,D 哪一個高度最小?
- (A) 10,20,30,40,50,60
- (B) 30,20,50,40,10,60
- (C) 60,50,40,30,20,10
- (D) 40,10,50,30,20,60
- 2.請依序加入下列資料建立一棵 Complete binary tree, 再轉換成 Heap 3,7,1,6,2,8,4,5,9
- 3. 下列 Heap, 劃出刪除 50, 再刪除 30 後的 Heap



- 4.Show the final AVL tree after successively inserting the keys 2,7,8,1,3,6,4,5,9,10 into an initially empty AVL tree
- 5. Given a 2-3 tree in the following, draw the tree after deleting 70,90,60,95,20 in the given order. (Hint: a 2-3 tree is a B-tree of order 3)

