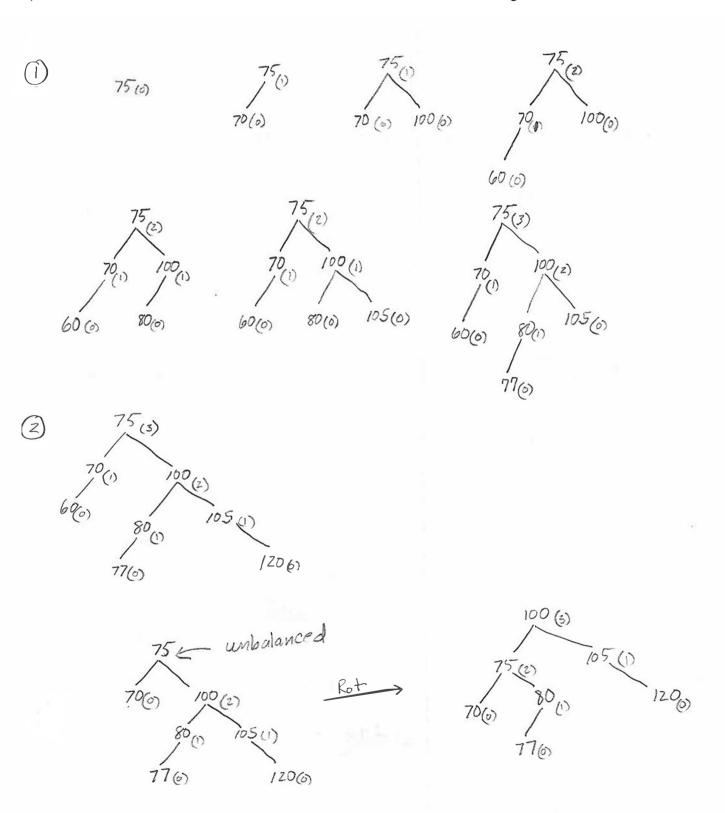
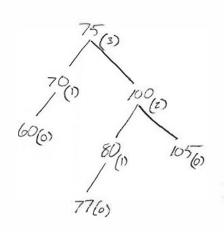
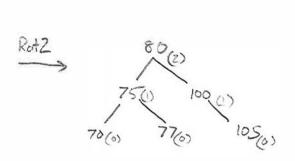
## **Question 1:**

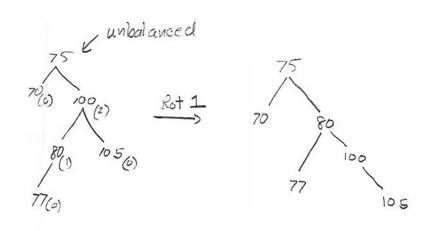
Perform the following operations in order -

- 1) Insert the following values, in the order that they are given into an AVL Tree. Show the tree after each insertion:
- 75, 70, 100, 60, 80, 105, 77, 120
- 2) Take the tree from #1 and remove 60. Provide the resulting AVL tree.
- 3) Take the tree from #1. Remove 120 at first. Then remove 60. Show the resulting AVL trees.









## Question 7:

Perform the following operations in order -

- 1) Insert the following values, in the order that they are given into a Min Heap. Show the heap after each insertion (in graphical tree form): 30, 20, 50, 10, 5, 70
- 2) Remove the minimum value from the heap. Provide the resulting heap (in tree form).
- 3) Add 8 to the heap. Provide the resulting heap (in tree form).
- 4) Remove the minimum value from the heap. Provide the resulting heap (in tree form).

