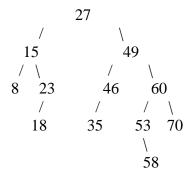
3) (10 pts) ALG (AVL Trees)

Show the result of deleting the value 8 form the AVL Tree pictured below. In this process, there are two rebalance operations that occur, total. Please show the state of the tree after each rebalance operation. (Note: after the first rebalance operation, the tree, as a whole, will not be balanced.)



Picture after first rebalance

Picture after second(last) rebalance

Computer Science Foundation Exam

May 20, 2023

Section C

ALGORITHM ANALYSIS

NO books, notes, or calculators may be used, and you must work entirely on your own.

Name:					
UCFID:					

Question #	Max Pts	Category	Score
1	10	ANL	
2	5	ANL	
3	10	ANL	
TOTAL	25		

You must do all 3 problems in this section of the exam.

Problems will be graded based on the completeness of the solution steps and <u>not</u> graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all <u>be neat</u>. For each coding question, assume that all of the necessary includes (stdlib.h, stdio.h, math.h, string.h) for that particular question have been made.