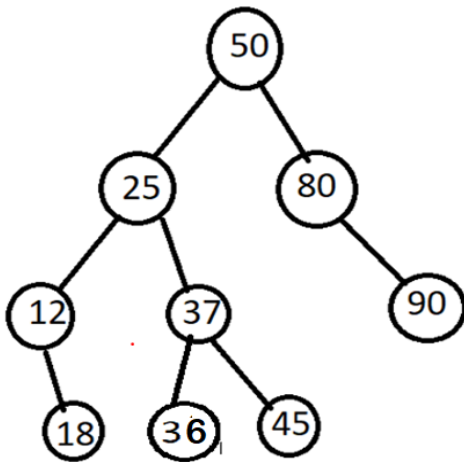
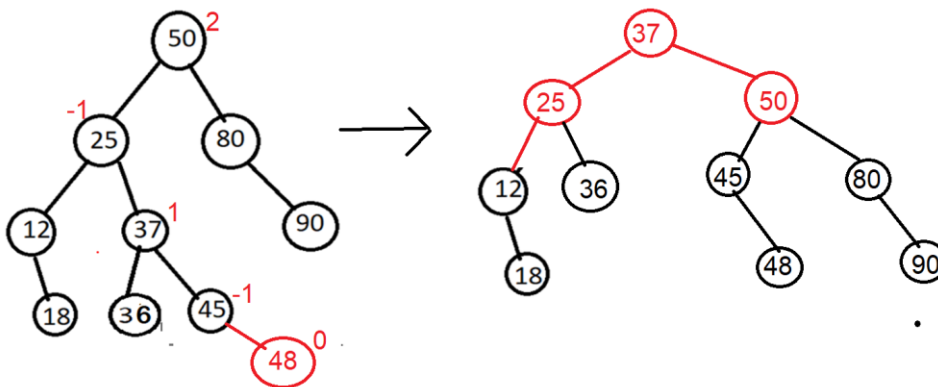


3) (5 pts) ALG (AVL Trees)

Show the final result of inserting 48 into the AVL tree below. Draw a box around your final answer.



Answer:



Grading: Automatic 0 out of 5 if not valid BST or not valid AVL tree.

1 pt valid AVL with right values (0 if this isn't satisfied)

1 pt for 37 at root,

1 pt for 25 left of root

1 pt for 50 right of root

1 pt for the rest being attached properly

Note: no need to show the difference in left and right heights.

Computer Science Foundation Exam

January 13, 2024

Section C

ALGORITHM ANALYSIS

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

SOLUTION

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 not 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 be neat. 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.