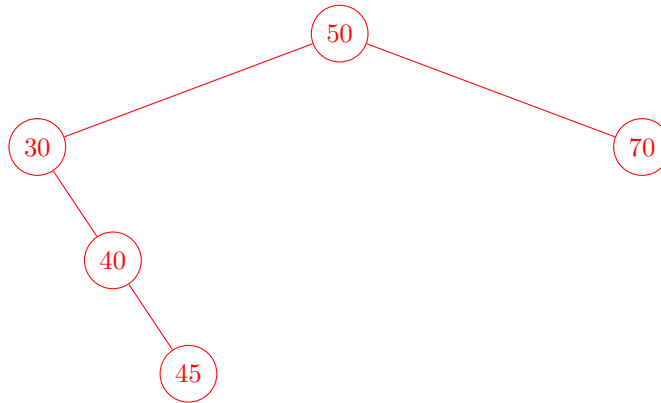


**CSCI 310 – Data Structures – Spring 2020**  
**HW 09 – BST and AVL Trees (9 points) – Solutions**

1. Consider the sequence of values  $s = 50, 30, 70, 40, 45$ .

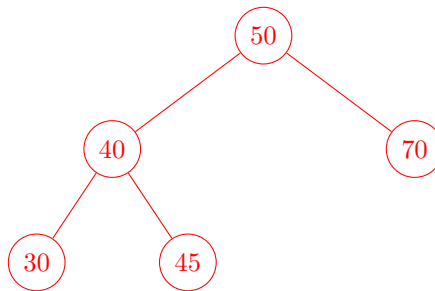
(a) (3 points) Draw the Binary Search Tree resulting from adding the sequence  $s$  to an initially empty BST.

**Solution:**

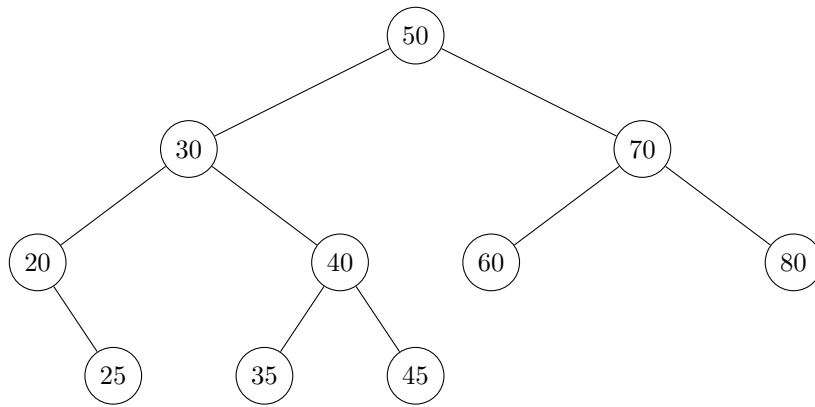


(b) (3 points) Draw the AVL Tree resulting from adding the sequence  $s$  to an initially empty AVL Tree.

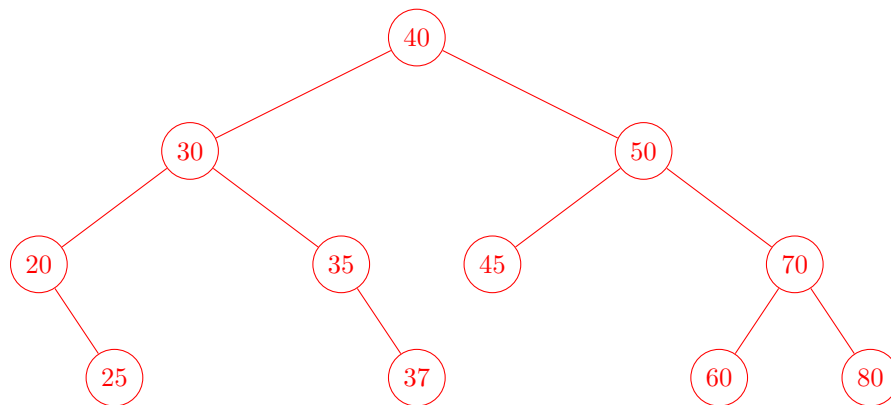
**Solution:**



2. (3 points) Draw the AVL tree resulting from inserting 37 into the below AVL tree.



**Solution:**



**What to turn in:** This assignment is to be turned in through Blackboard. You can type up your solution using a computer program or you can prepare your solution by hand and scan it.