

## Data Structures Quiz 6 (20 minutes)

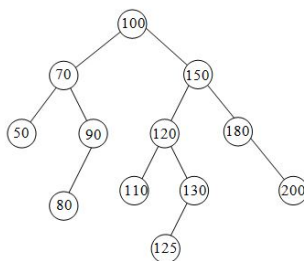
Name: \_\_\_\_\_ NetID: \_\_\_\_\_

**By participating in this quiz, you agree to adhere to the honor code.**

Given the rules of a simple Binary Search Tree (BST), perform the following operations:

1. (6pt) Consider the sequence of keys (38, 50, 22, 34, 78, 73, 7, 24, 37, 62, 11, 12). Draw the result of inserting entries with these keys (in the given order) into an initially empty (2, 4) tree.

Consider the following AVL tree



2. (4pt) Delete the node with the value 50 from the given AVL tree. Show the tree before and after each restructuring required to maintain AVL balance.