CC4 Laboratory Activity #9
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Topics Covered: AVL Trees

Estimated Completion Time: 3 meetings (6 hours)

Objectives:

1. To appreciate and understand how AVL trees are represented using arrays.

2. To be able to simulate insertion and deletion of elements/nodes from an AVL tree with the corresponding rebalancing algorithms.

Problem: Create a running program that simulates how AVL trees are represented using arrays by:

a. Asking the user to input any series of integers in an array.
b. Writing the appropriate algorithm to build an AVL tree out of the given inputs.
c. Displaying the array representation of the AVL tree.
d. Allowing the user to Insert and Delete elements/nodes using the appropriate insertion and deletion algorithms discussed in class.
e. Displaying the resulting changes in the AVL tree after each insertion and deletion.