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ECE 368

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Programming Assignment 3

Results:

This program packs boxes based off vertical and horizontal cuts in certain spots. We were given data in a text file and then converted it to a binary tree. Because the original input is given in a post order traversal, the time is about O(n2). This is due to the fact that the program has to traverse through the whole file and remake it using an inorder traversal.

For finding the coordinates, the algorithm is O(n). This is because the program traverses through the tree, but only visits every node once. This results in the algorithm to be O(n).