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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 $O(n^2)$. 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 $O(n)$.