Tuesday, April 24

Warmup
Give the inorder, preorder, and postorder traversals of the tree drawn on the chalkboard (shown below).

```
    m
   / \       / \       /  \\
  b   f   l   y   c
```

Inorder: rblmyfpc
Preorder: mbrlfycp
Postorder: rlbypcfm

Review of tree vocabulary
Traversal - visit all nodes in a data structure
name comes from when the root is visited
inorder - left, root, right
preorder - root, left, right
postorder - left, right, root

Look at how to read a sideways tree

Root, parent, left child, right child, leaves

comma assignment (Comma.java)
due Wednesday April 25

binarytree assignment
due Friday, May 4

binary trees
normal ones not sorted - for example, the warmup question
binary search trees are sorted - contents is in sorted order when doing an inorder traversal
we are not balancing the trees - that’s CS 362 (AVL or red-black)
Example of insert - binarytree (very unbalanced)
   code is if-else nested inside if-else
   don’t fall off subtree - look ahead to whether subtree is null

Mini-warmup - insert enhancement and traversal and iterative

lots of drawing on board and examples of insert and remove