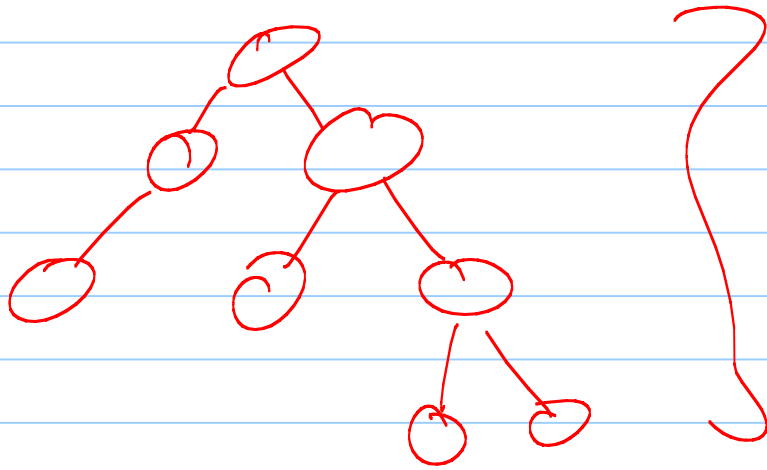## Announcements

- HW now due Mon

- Test next Friday
   (review next Thurs)

- Lab tomorrow

- Boeing scholarships - due Fri.

AVL trees

Main property:
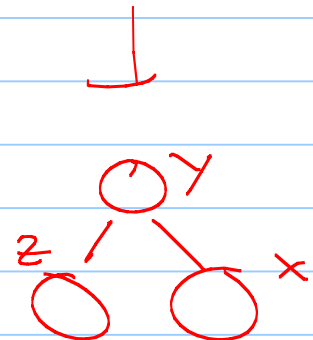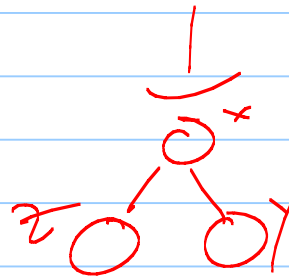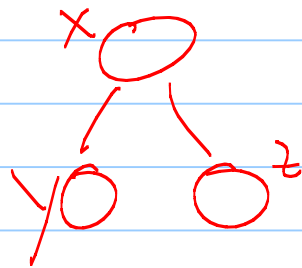
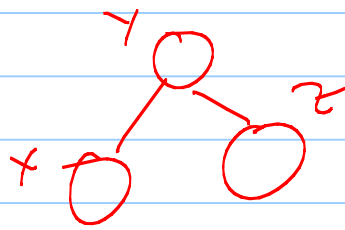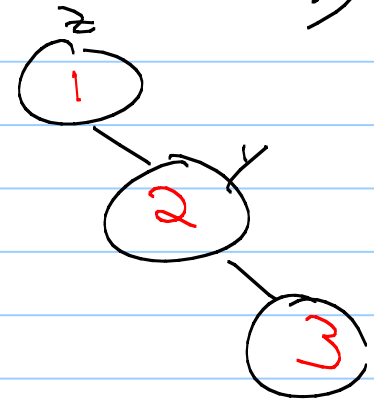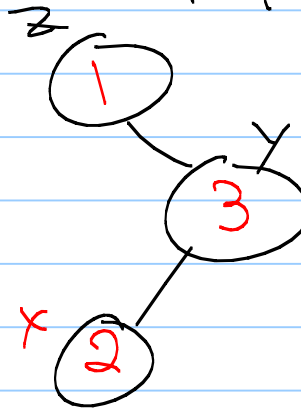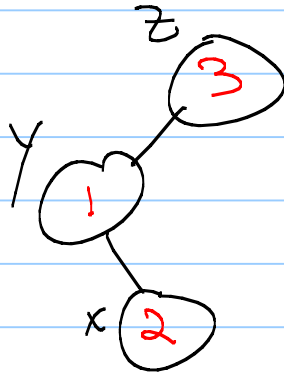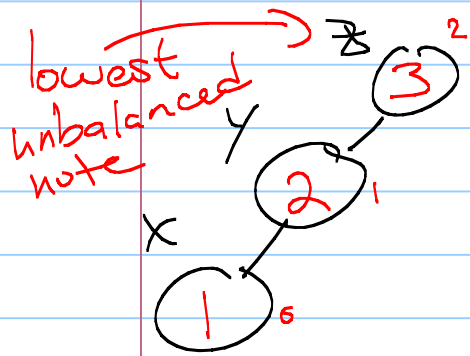- height of children are within one of each other.

$$\leq 2 \cdot \lceil \log_2 n \rceil$$

Insert:

Consider x, y, & z. How can we restructure?
(Hint: What is inorder traversal of these in each case?)

lowest
unbalanced
note

Note: Only have to rotate once!

Why?

height h

z

$h-1$ $h-3$

height $h-1$

$h-2$ $h-2$
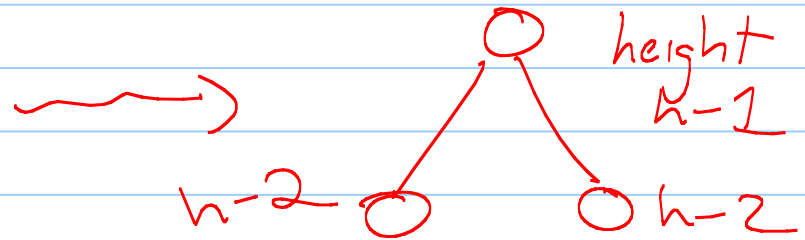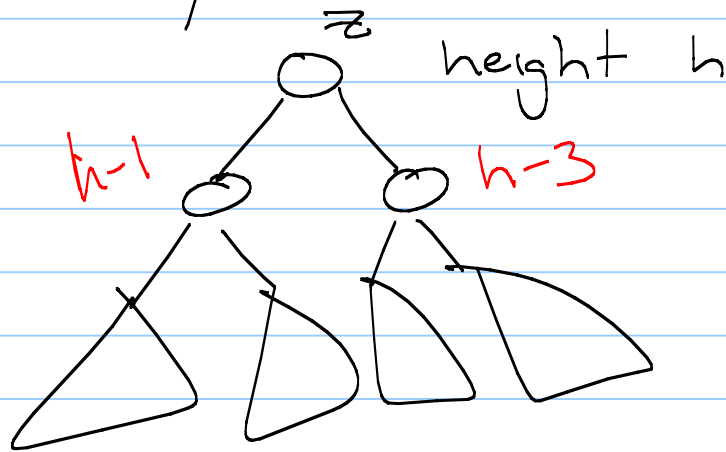
So how can we code this?
Back to BinaryTree.h:
— pivot(it) will swap it
and its parent