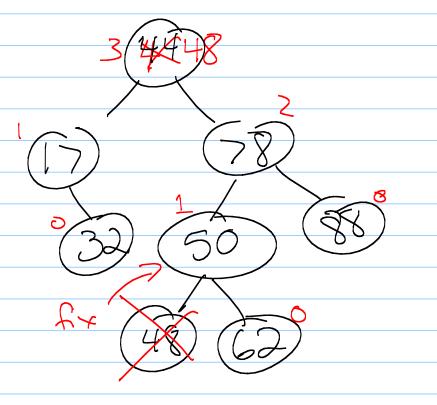
	S180 - AVL trees
Note Tit	le
	Announcements

rees: to Balance Property: for every hode of The heights of the while => max height = Q do we calculate heigh again?) recursive- look at 2, Insert: Do BST insert Then find lowest unbalanced nude z: X

operation: -pwot

: Remove - just like stert from actual deleted node & Vote: Unlike insert, remove could actually unbelance all the way to the root Example: remove (44) remove



Tixing

Algorithm to remove

Remove as in BST

Track lower node that was removed.

Travel up tree, searching for unbalanced nodes (+ fixing) until you reach the roots.

Terformance insert at delete follow root leaf path at most 3 times: - next in inorder (for remove) - travel back each vode: (-r - reset heights again (if prot) at most 60 operations: O(1)

Remove in an AVL free. Canton: Testing will be a significent portion of your grade! Lots of cases, since imbalances could propagate all the way up the from.) I'll post this, but it won't be due until a week after the exam.