Cse332 Worksheet Week 4

1. Starting with an empty AVL tree, insert the following values: 37, 12, 18, 40, 30, 43, 24, 29, 21 & finally 11. Draw the tree after each insertion (after the rotations are complete).
2. BST vs. AVL
   1. A. Give an ordering of 7 insertions into an empty BST tree that results in the worst-case shape (one long list).
   2. Now insert those same elements, in the same order, into an empty AVL tree and draw the result.
3. Oh no! We had a nice little B-Tree below, but we lost its M and L values, as well as all the values of the inner nodes! Using the leaf values, and the structure of the tree, fill in M, L and the inner node values.
   1. After fixing up the tree, try inserting 25, then deleting 96.