

CSE 373 – Data Structures

Homework 3

Assigned: Wednesday, April 17, 2002

Due: Wednesday, April 24, 2002

At the start of class

Remember:

Attach a copy of your wintree.dot or tree.dot

Attach a copy of your two plots

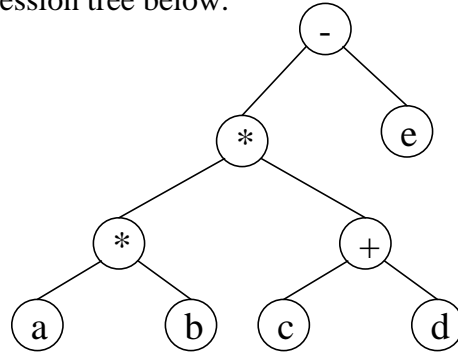
Attach a copy of your turnin receipt

Do an web turnin of tree.c.

Your name: _____

Student number: _____

3. Consider the expression tree below.



- a. What is the corresponding infix expression?
 - b. What is the corresponding postfix expression?
4. Binary search trees can provide significant speed improvements over straight linear searches through a list of elements.
- a. What is the worst case big-O order associated with finding a node in an AVL tree stated relative to the number of nodes N in the tree?
 - b. Under what circumstances does this worst-case access occur?
- c. What is the worst case big-O order associated with finding a node in a Splay tree stated relative to the number of nodes N in the tree?
 - d. Under what circumstances does this worst-case access occur?