

## CSE 326 DATA STRUCTURES HOMEWORK 4

Due: **Friday, February 9, 2007** at the beginning of class in the lecture section you are registered in  
Please put your quiz section (AA,AB,BA,BB) in addition to your name at the top of your homework

Since we just had a midterm and the project is due on Wednesday, this homework will, hopefully be a bit more relaxing than the past three homeworks. But don't get too comfortable, we'll be back to the normal level after this homework!

### **Problem 1. More Fun with AVL Trees**

Please do Weiss problem 4.19. Be very careful to watch out for rotations where all the nodes involved have child subtrees: quite a few of you messed up this rotation on the midterm.

### **Problem 2. Even More Fun with Splay Trees**

Please do Weiss problem 4.27.

### **Problem 3. B-Trees**

Show the result of inserting 10, 15, 12, 3, 1, 13, 4, 17, and 8 into an initially empty B-tree with  $M = 3$  and  $L = 2$ .