

**CS 2604 Data Structures and File Management
Homework #2**

**Summer II 2003
Due: 30 July 2003, 11:59pm**

As before, you will submit this homework through the curator system in any format that can be opened using Microsoft Word (including plain ASCII text). If you submit more than one version of your homework, we will grade the latest one. Make sure that your file contains, at the top of the document, your name, your ID number, and your email address. (50 points: 10,10,10,20)

1. The code for Insertion sort, described in page 221 of the text book, uses swaps in its inner for-loop. Swaps entail 3 assignment statements which means up to $3i$ assignments occur for every iteration of the outer for-loop. Rewrite the algorithm so that at most $i+2$ assignments occur at every iteration.
2. Exercise 7.3 on page 254 of the textbook
3. Exercise 8.4 on page 288 of the textbook
4. Exercise 8.8 on page 289 of the textbook