Due Date: October 04, 2001

Assignment # 2

- 1. [200 pt] Show the sorting of integers graphically using the following algorithms:
 - (a) Selection sort
 - (b) Insertion sort
 - (c) Bubble sort
 - (d) Shell sort
 - (e) Quick sort
 - (f) Merge sort

I'll prefer you doing this assignment in Java but any other language with graphical user interface (on Unix) will do, for example, C or C++ using X windows. You will start by creating a screen of 640×480 pixels. Using a random number generator, distribute numbers along X axis such that the magnitude of the number is represented by a line starting from 0 to this number (where the y-axis is between 0 and 1000, and each random number is also between 0 and 1000). As your algorithm swaps the numbers, reflect that on the screen.

Deliverable: Your code, in electronic format as well as hard copy. The *e* format must be submitted on admiral, using the handin script in my directory "sanjiv/bin/handin. If you do the entire assignment in your directory *lastname*.2 where *lastname* is your last name, you can submit it as

~sanjiv/bin/handin lastname.2 cs464 2