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CS302

2/20/16

PA05 Journal

0. Tested using third test data set from submit system:

	Bubble	Merge	Quick
Test 1	0.000797	0.000621	0.000189
Test 2	0.000798	0.000693	0.000191
Test 3	0.000796	0.000686	0.000188
Test 4	0.000791	0.000648	0.000188
Test 5	0.000801	0.000689	0.000188
Test 6	0.000796	0.000646	0.000203
Test 7	0.000797	0.000644	0.000204
Test 8	0.000796	0.000692	0.000191
Test 9	0.000813	0.000668	0.000188
Test 10	0.000808	0.000670	0.000190
Average	0.0007993	.0006657	.000192
Avg*1000000	799.3	665.7	192.0

1. What worked well?

The textbook was extremely useful in this assignment, as it described the sorting algorithms we were to use in great detail, with very helpful examples. Additionally, reading documentation online was beneficial to understanding these sorts.

2. What didn't work?

The book was not entirely accurate, however, and the merge sort described was missing one key check to make sure it worked. Also, the assignment for using recursion in the bubble sort was vague.

3. What did you need help with?

I did not need help with anything on this assignment.

4. What did you learn?

I feel as if I have a much greater understanding of both sorting algorithms and recursion. Using the timer with this project, it is easy to see how greatly the efficiency of a sorting algorithm affects the time it takes to complete, as the quick sort was nearly four times as fast as the other two. Also, I now have much more confidence in analyzing sorting and searching methods.