Introduction to Programming

Class Grade List – One Last Time - Again Reading and Writing Files

Your client loved the last program you wrote where you read the student information from a file (since they didn't need to key the data in each time) and wrote the results to another file. After using it for a while, they are asking you (for an additional consulting fee, of course) to **modify the program** so that:

1. When the results are written to the output file, they appear in alphabetical order of student names, sorted in ascending order by last name and first name within last name.

For example:

Input file:

bob smith 45 89 sally jones 89 76 alan smith 45 89

yields

Output file:

sally	jones	89.0 76.0 82.5 10.333333333333	3329
alan	smith	45.0 89.0 67.0 -5.166666666666	6671
bob	smith	45.0 89.0 67.0 -5.16666666666	6671

As before your program will then **read** results.txt and produce a report like this:

Name	Midterm	Final	Average	Deviation
Bob Smith Sara Jones Ethan Chen	100.00 90.00 92.00	98.00 95.00 100.00	99.00 92.50 96.00	3.17 -3.33 0.17
Class Average	is: 95.83			

Note that this is the same output format as for the "Class Grade List assignment where we input values using a loop.