Ferguson – Take Home Assignment 9

For this assignment, we were tasked with being able to add items to a linked list, finding the average of all the grades added to the list, and then adding a grade to the list and sorting the list to find where the grade ranked. For this assignment, instead of ranking the grades in ascending order, I ranked the grades in descending order so then a grade like 100 would be #1 and a grade like 0 would be ranked #26. This code doesn’t have much variability, so the different test cases will just prove that 100 is ranked #1, 0 is ranked #26, and then another test case somewhere in the middle.

Attempt 1:

For this attempt, I will enter a grade 100 and expect it to rank my grade as #1. I expect this attempt to list all the random grades, ask me to input a number, and then tell me what number in input and tell me where the grade ranks.

A screenshot of a computer

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Attempt 2:

For this attempt, I will enter a grade 0 and expect it to rank my grade as #26. I expect this attempt to list all the random grades, the grade average, ask me to input a number, and then tell me what number in input and tell me where the grade ranks.

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Attempt 3:

For this attempt, I will enter a grade 50 and expect it to rank my grade somewhere near #13. I expect this attempt to list all the random grades, the grade average, ask me to input a number, and then tell me what number in input and tell me where the grade ranks.

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Attempt 4:

For this attempt, I will enter a string and a number greater than 100 and less than 0. I expect the program to ask me to enter a new number so the program does not error or produce an unexpected result. This attempt proves that the exception handling works properly.

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