**Coding Assignment 6 Results**

CSE 3318

**Test 1**

**A.** How many rows are in your file/how many cells are in your hash table array?

*(put your answer here)*

**B.** How many of those cells contained the head of a linked list?

*(put your answer here)*

**C.** What percentage of the array is being used?

*(put your answer here)*

**D.** What is the length of the longest linked list?

*(put your answer here)*

**Test 2**

**A.** Did increasing the size of the hash table array give you different results than Test Question 1?

*(put your answer here)*

**B.** Explain why or why not.

*(put your answer here)*

**Test 3**

**A.** How many rows are in your file/how many cells are in your hash table array?

*(put your answer here)*

**B.** How many of those cells contained the head of a linked list?

*(put your answer here)*

**C.** What percentage of the array is being used?

*(put your answer here)*

**D.** How did decreasing the size of the hash table array affect the percentage of the array that filled?

*(put your answer here)*

**E.** Did your hash table get any linked lists that were longer than in Test 1? Why or why not?

*(put your answer here)*

**Test 4**

**A.** What was your average search time when your HASHTABLESIZE matched the number of records in the file?

*(put your answer here)*

**Test 5**

**A.** What was your average search time when your HASHTABLESIZE was set to 1?

*(put your answer here)*

**Test 6**

**A.** What was your average search time when your HASHTABLESIZE was set to 1 and you only searched for the last record of your input file?

*(put your answer here)*

**B.** Was this average different from your answer to Test 5. If yes, why?

*(put your answer here)*

**Bonus Question**

If your program was using Open Addressing rather than Separate Chaining, then how many cells of the hash table array would be used when HASHTABLESIZE is set to the number of lines in the file? How did you calculate this number? Show/explain your answer.