Assignment 9

Submit your code, your input file, and the results of running your programs with your input file.

Question 1

Write a method that takes a file name as an argument, reads the file into a **LinkedList** of doubles (remember you have to use **Double** and not **double** in the **angle brackets**), and returns the list. Assume that each line of the file contains doubles separated by commas (so the file is a comma separated value file).

Test your method by calling it from **main** using a file that you make up – **ensure that at least one line of the file contains more than one number.**

Question 2

Write a method which takes a **LinkedList** of doubles and returns the sum of the elements of the list.

Test your methods by calling then from **main** using your file from Question 1.

Hint: Use a **foreach** loop.

Question 3

Write a method that takes a **LinkedList** of doubles and returns the number of unique elements in the list.

Test your method by calling it from **main** using your file from Question 1.

Hint: Use a **HashSet<Double>**.

Question 4

Write a method takes a **LinkedList** of doubles and prints the unique elements in the list, and the number of times each unique element occurs.

Test your method by calling it from **main** using your file from Question 1.

Hint: Use a **HashMap<Double, Integer>**.