Lab 11 – Applications of Linked List ADT

In this lab you will get to create an application of your choosing that uses the LinkedList abstract data type as provided on D2L.

Your application must create a new class along with some member functions and the class should be storing data into a member that is of the type LinkedList.

As some you could have:

* A Theatre ADT that stores a list of tickets
* A Parking Lot ADT that stores a list of Cars
* A NetworkSwitch ADT that stores a list of Ports
* Anything that stores a list of anything else

Some good features to include in your ADT:

* Load a bunch of data from a CSV file into the LinkedList
* Iterate through the LinkedList and return something like the count of objects that match a certain criteria.
* A function that accepts one LinkedList as a parameter and takes each of the items in that list and adds it to the list in the main ADT.
* Split the linked list into two parts where some values go to one list and other values go to another list.
* Iterate through the list and modify the values of some of the items.