

Write a new program that will read in information from the CarData.txt text file and store it a Car object that will retain all of the relevant statistical data (Car ID, MPG, Engine Size, etc...). There are 8 different statistical values that must be stored.

The Car Objects must be stored in three different data structures (a Queue, a Stack, and a PriorityQueue). (Keep in mind that the Car object must be comparable in order to function properly.)

Order of fill:

1. Fill the Queue 1st.
2. Remove all values from the Queue and move them to a Stack
3. Remove all values from the Stack and move them to a PriorityQueue

After filling the three data structures, you must output the cars in the following format:

Queue – should display them in the same order that they were read in from the file.

Stack – should display them in the reverse order that they were added in from the Queue.

PriorityQueue – should display them sorted by the following priority:

1. Acceleration
2. Miles Per Gallon
3. Horsepower
4. Engine Size
5. Weight
6. Cylinders
7. CarID

(Country of origin is not necessary for priority, but must exist).

Your PriorityQueue must then display the cars in the appropriate order.

Display your list in an appropriate way so that it is easily readable.