SUMMARY

In this lab you will add electric cars to your car package.

IN-LAB

Create the class `ElectricCar` to represent electric cars. `ElectricCar` should extend `Car`. Electric cars have everything cars have, except instead of mpg they have a range. The range is an integer number of miles that the car can travel on a full charge.

Create the necessary fields and constructors for `ElectricCar`, including a constructor for the delimited string. Remember to use the `super` keyword to access the parent constructors.

Additionally, create an accessor method `getRange()` in `ElectricCar`, and override the `toString()` method to include the range.

DATA

Three new data files are provided. These files are similar to the previous lab, except that they contain an additional first column in each line that is either “gas” or “electric” to denote the type of car. Modify your Dealership class to check this field and create the appropriate type of car.

Additionally, create the following new method in Dealership:

```java
    printElectricsWithRangeOver(int minRange)
```

Print (on separate lines) all electric cars that have a range greater than or equal to `minRange`. Look up how to use the `instanceof` statement to check class types.
TESTING

Here is an example for testing:

```java
public static void main(String[] args)
{
    Dealership d = new Dealership("Carle Classics", "car/data/cars_ge_1M.csv");
    System.out.println(d);
    System.out.println("--- Electric Cars with range >= 500 miles ---");
    d.printElectricsWithRangeOver(500);
    System.out.println();
}
```

OUTPUT RESULTS

Here is a sample run test calls from above. When you are finished, your output should look like this. Only the first electric car is shown.

```
> run car.Dealership
Carle Classics Car Dealership with 1000000 cars.
--- Electric Cars with range >= 500 miles ---
A 3 year old 2012 Nissan Leaf with 10000 miles for $40000.00. This car has a range of 500 miles. Monthly payments on a 5 year loan are $666.67.
...
```

GET CREDIT

Don’t forget to show a coach what you’ve done before you leave so you get credit for attending and participating in the lab.