

Make:

- **sortSettings**
 - o tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **Make**
 - o tested by printing out all the makes and looking through the output(constructor was used to create list of makes)
- **getMakeName**
 - o tested by printing out the list of all make names
- **setMakeID**
 - o tested by setting and then printing the new id for all makes
- **getMakeID**
 - o tested by setting and then printing the new id for all makes
- **equals**
 - o tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **hashCode**
 - o tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **toString**
 - o tested by printing out all the makes and looking through the output(toString was used to print results)
- **addModelSettings**
 - o tested by printing out all the makes and looking through the output(add model settings was used to create the list of makes)

MPG:

- **toString** - tested by printing out all the makes and looking through the output(toString was used to print results)
- **equals** - tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **hashCode** - tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **MPG** - tested by printing out all the makes and looking through the output(constructor was used when creating list of makes)

ModelSettings:

- **ModelSettings** - tested by printing out all the makes and looking through the output(constructor was used when creating list of makes)
- **setMake** - tested by printing out all the makes and looking through the output(called in makes constructor, and in addModelSettings)

- **compareTo** - tested by printing out all the makes and looking through the output(used in sortSettings implementation)
- **hashCode** - tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)
- **toString** - tested by printing out all the makes and looking through the output(toString was used to print results)
- **equals** - tested by printing out all the makes and looking through the output(everything was sorted by year, transmission, displacement)

testing via printing out makes:

```

94         reader.close();
95     } catch (IOException e) {
96         System.err.println(e.getMessage());
97     }
98 }
99
100 }
101
102
103
104 public static void main(String[] args) {
105     int option = readOption(args);
106
107     ArrayList<Make> makes = null;
108     try {
109         makes = loadCSV(args[FILE_NAME]);
110     } catch (FileNotFoundException e) {
111         System.err.println(e.getMessage());
112         System.exit(1);
113     }
114
115     for (Make make : makes)
116     {
117         System.out.println(make);
118     }
119 }
120
121 }

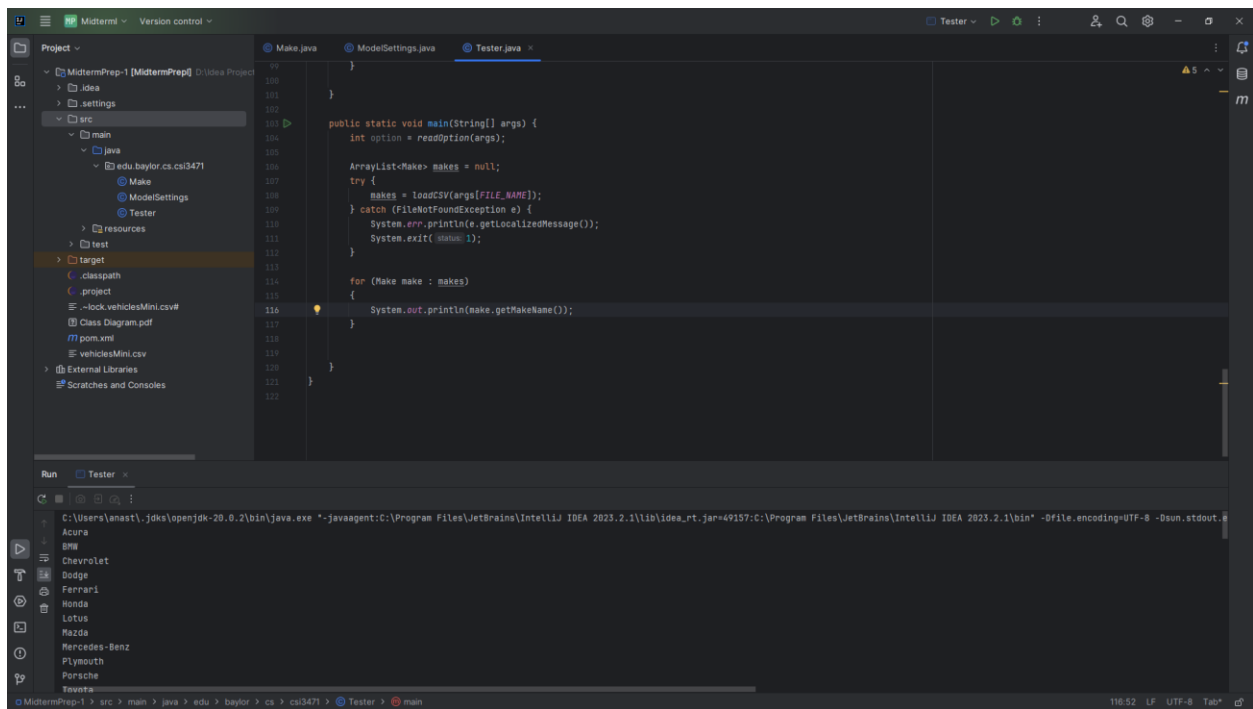
```

```

{avg=(city=19, combined=22, avg=27), cylinders=6, displacement=3.5, fuelType='Premium', model='Altima Coupe', transmission='Manual 6-spd', VClass='Subcompact Cars', year=2008, modelSettingsID=9080},
{avg=(city=19, combined=22, avg=27), cylinders=6, displacement=3.5, fuelType='Premium', model='Altima', transmission='Manual 6-spd', VClass='Midsize Cars', year=2008, modelSettingsID=9151},
{avg=(city=16, combined=17, avg=20), cylinders=6, displacement=4, fuelType='Regular', model='Frontier 2WD', transmission='Manual 6-spd', VClass='Small Pickup Trucks 2WD', year=2008, modelSettingsID=9215},
{avg=(city=15, combined=17, avg=19), cylinders=6, displacement=4, fuelType='Regular', model='Frontier 4WD', transmission='Manual 6-spd', VClass='Small Pickup Trucks 4WD', year=2008, modelSettingsID=9219},
{avg=(city=16, combined=17, avg=20), cylinders=6, displacement=4, fuelType='Regular', model='Xterra 2WD', transmission='Manual 6-spd', VClass='Sport Utility Vehicle - 2WD', year=2008, modelSettingsID=9286},
{avg=(city=16, combined=17, avg=20), cylinders=6, displacement=4, fuelType='Regular', model='Xterra 4WD', transmission='Manual 6-spd', VClass='Sport Utility Vehicle - 4WD', year=2008, modelSettingsID=9332},
{avg=(city=17, combined=19, avg=23), cylinders=6, displacement=3.5, fuelType='Premium', model='350z Roadster', transmission='Automatic (5S)', VClass='Two Seaters', year=2009, modelSettingsID=10069},
{avg=(city=13, combined=15, avg=19), cylinders=8, displacement=5.6, fuelType='Premium', model='Pathfinder 2WD', transmission='Automatic (5S)', VClass='Sport Utility Vehicle - 2WD', year=2009, modelSettingsID=10424},
{avg=(city=13, combined=16, avg=18), cylinders=8, displacement=5.6, fuelType='Premium', model='Pathfinder 4WD', transmission='Automatic (5S)', VClass='Sport Utility Vehicle - 4WD', year=2009, modelSettingsID=10475},
{avg=(city=16, combined=18, avg=21), cylinders=6, displacement=3.5, fuelType='Premium', model='V-F 4', transmission='Automatic (5S)', VClass='Subcompact Cars', year=2009, modelSettingsID=9693},
{avg=(city=18, combined=21, avg=26), cylinders=6, displacement=3.7, fuelType='Premium', model='370z', transmission='Automatic (37)', VClass='Two Seaters', year=2009, modelSettingsID=10597},
{avg=(city=27, combined=29, avg=33), cylinders=4, displacement=1.8, fuelType='Regular', model='Versa', transmission='Automatic (variable gear ratios)', VClass='Midsize Cars', year=2009, modelSettingsID=9782},
{avg=(city=28, combined=30, avg=34), cylinders=4, displacement=1.8, fuelType='Regular', model='Versa SE', transmission='Automatic (variable gear ratios)', VClass='Midsize Cars', year=2009, modelSettingsID=10630}

```

Printing out all make names:



Testing set and get makeID

