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| **CO2FromWaste and CO2FromWasteTester** |
| **Private Instance Variables**  - int myNumPeople  - boolean myPaper  - boolean myPlastic  - boolean myGlass  - boolean myCans  - double myEmissions  - double myReduction  -double myNetEmissions  **Main Method**  + ArrayList<CO2FromWaste> households  + CO2FromWaste dataRecord |
| **Constructor**  + CO2FromWaste(int numPeople, boolean paper, boolean plastic, boolean glass, boolean cans)  **Methods**  + void calcGrossWasteEmission()  + void calcWasteReduction()  + void calcNetWasteReduction()  + int getNumPeople()  + boolean getPaper()  + boolean getGlass()  + boolean getPlastic()  + boolean getCans()  + double getEmissions()  + double getReduction()  + double getNetEmissions()  + String toString() |

**Pseudocode**

CO2FromWaste:

1. Declare constructor with each parameter equal to each private instance variable.
2. Create methods to get each private instance variable.
3. Create method to calculate total emissions.
4. Create method to calculate the reduction due to recycling.
5. Create method to calculate the net emissions by subtracting the total by the reduction.
6. (Optional) Create a toString() method to print out the object neatly.

CO2FromWasteTester:

1. Import the ArrayList from Java and create an ArrayList.
2. Add each object into the ArrayList.
3. Run the methods necessary to calculate the emissions for each object in the ArrayList.
4. (Optional) Create a new object and use it instead of getting each object from the ArrayList each time (.get(index))
5. Print the results for each object in a table format. The printf parameters should call each getter method necessary. (the toString() method should print the object, followed by the getter methods)