```
public interface Truck {
public int getAxles();
public int getTotalWeight();
public String getMake();
}

public class FordTruck implements Truck {
private final int axles;
private final int totalWeight;
private final String make;

public FordTruck(int axles, int totalWeight) {
this.axles = axles;
this.totalWeight = totalWeight;
this.make = "Ford";
}

public int getAxles() {
return axles;
}

public int getTotalWeight() {
return totalWeight;
}

public String getMake() {
return make;
}
}

public class NissanTruck implements Truck {
private final int axles;
private final int totalWeight;
private final String make;

public NissanTruck(int axles, int totalWeight) {
this.axles = axles;
this.totalWeight = totalWeight;
this.make = "Nissan";
}

public int getAxles() {
return axles;
}

public int getTotalWeight() {
return totalWeight;
}

public String getMake() {
return make;
}
}
```

```
public class DaewooTruck implements Truck {
private final int axles;
private final int totalWeight;
private final String make;

public DaewooTruck(int axles, int totalWeight) {
this.axles = axles;
this.totalWeight = totalWeight;
this.make = "Daewoo";
}

public int getAxles() {
return axles;
}

public int getTotalWeight() {
return totalWeight;
}

public String getMake() {
return make;
}
}

public interface TollBooth {
public void calculateToll(Truck truck);
public void displayData();
public void collectReceipts();
}

public class AlleghenyTollBooth implements TollBooth {
private int totalTrucks;
private int totalReceipts;

public AlleghenyTollBooth() {
totalTrucks = 0;
totalReceipts = 0;
}

public void calculateToll(Truck truck) {
int axles = truck.getAxles();
int weight = truck.getTotalWeight();
int toll = (axles * 5) + ((weight / 500) * 10);
totalTrucks++;
totalReceipts += toll;
System.out.println("Arrival of " + truck.getMake() + " Truck");
System.out.println("Truck arrival - Axles: " + axles +
" Total weight: " + weight + " Toll due: $" + toll);
}

public void displayData() {
System.out.println("Totals since last collection - Receipts: $" + totalReceipts + " Trucks: " +
totalTrucks);
```

```
}

public void collectReceipts() {
System.out.println("*** Collecting receipts ***");
displayData();
totalTrucks = 0;
totalReceipts = 0;
System.out.println("***** Reset Receipts **********");
displayData();
}
}

public class TestTollBooth {
public static void main(String[] args) {
TollBooth booth = new AlleghenyTollBooth();

Truck ford = new FordTruck(5, 12500); // 5 axles, 12500 kg
Truck nissan = new NissanTruck(2, 5000); // 2 axles, 5000 kg
Truck daewoo = new DaewooTruck(6, 17000); // 6 axles, 17000 kg

booth.calculateToll(ford);
booth.calculateToll(nissan);
booth.calculateToll(daewoo);

booth.displayData();
booth.collectReceipts();
}
}
```