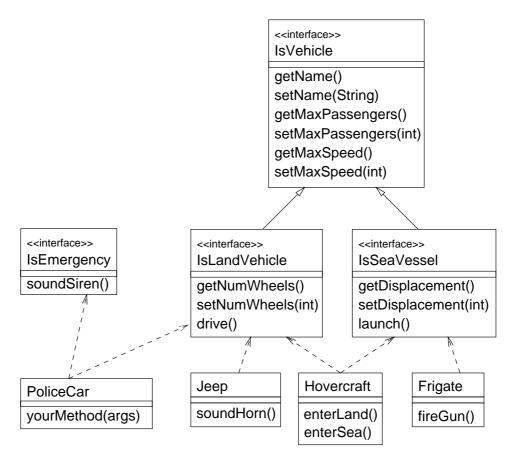
Exercise 14 Answers

Interfaces

```
1.
2. interface IsEmergency {
     public void soundSiren();
3. class PoliceCar implements IsEmergency, IsLandVehicle {
     // Properties...
     private String name;
     private int
                   maxPassengers;
     private int
                   maxSpeed;
     private int
                    numWheels;
     // Constructor...
     public PoliceCar(String aName) {
                      = aName;
        name
        maxPassengers = 4;
        maxSpeed
                   = 220;
        numWheels
                      = 4;
     }
     // IsVehicle methods...
     public String getName() {
        return name;
     public void setName(String aName) {
        name = aName;
     public int getMaxPassengers() {
        return maxPassengers;
     public void setMaxPassengers(int aMaxPassengers) {
        maxPassengers = aMaxPassengers;
     public int getMaxSpeed() {
        return maxSpeed;
     public void setMaxSpeed(int aMaxSpeed) {
        maxSpeed = aMaxSpeed;
     }
     // IsLandVehicle methods...
     public int getNumWheels() {
```

```
return numWheels;
}
public void setNumWheels(int aNumWheels) {
    numWheels = aNumWheels;
}
public void drive() {
    System.out.println("Police car driving!");
}
```

5. Here is the UML diagram:



6. Increase the size of the myArray array to 5 and add the following line to the main method.

```
myArray[4] = new PoliceCar("Boss Hog's car");
```

7. Add the following code to the body of the for loop:

```
if (myArray[i] instanceof IsEmergency) {
   IsEmergency ev = (IsEmergency)myArray[i];
   ev.soundSiren();
}
```