Question 5

Correct

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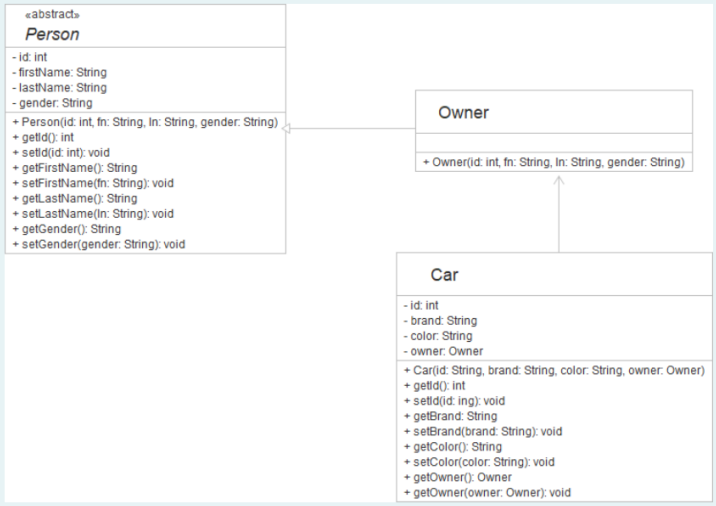
Write Java code according to the given description and UML diagram as shown below.



The *Person* is an abstract class which provides a template of person information. The class *Owner* inherits properties of Person. The class of *Car* represents a car having id, brand and color. Also, it can be associated with an owner who is an owner of the car.

The driver class of *Tester* is provided in the answer box for testing the system. Please do not modify the driver class since your output may be incorrect. Hints: only the *Tester* class can be a public class.

For example:

Input	Result
2 111 John Wick male 11112015 Mercedes-AMG-GT Yello 007 James Bond male 15012016 Aston-Martin Gray	--- Car Owner List --- id: 11112015 brand: Mercedes-AMG-GT color: Yello owner: John Wick id: 15012016 brand: Aston-Martin color: Gray owner: James Bond

```
public class Tester {
	public static void main(String[] args){
		ArrayList<Car> cars = new ArrayList<Car>();
		ArrayList<Owner> owners = new ArrayList<Owner>();

		Scanner sc = new Scanner(System.in);
		int count = sc.nextInt();
		for(int i=0; i<count; i++){
			int id = sc.nextInt();
			String fn = sc.next();
			String ln = sc.next();
			String gender = sc.next();
			owners.add(new Owner(id, fn, ln, gender));
			int cid = sc.nextInt();
			String brand = sc.next();
			String color = sc.next();
			cars.add(new Car(cid, brand, color, owners.get(i)));
		}

		System.out.println("--- Car Owner List ---");
```

```
                for(int i=0; i<count; i++){
                        Car c = cars.get(i);
                        System.out.println("id: "+c.getId()+
                                        " brand: "+ c.getBrand() +
                                        " color: "+ c.getColor() +
                                        " owner: "+ c.getOwner().getFirstName() + " " +
c.getOwner().getLastName());
                }

        }
}
```