Import java. Util.Scaner;

public class Car {

private String licensePlate;

private String model;

private boolean isRented;

public Car(String licensePlate, String model) {

this.licensePlate = licensePlate;

this.model = model;

this.isRented = false;

}

public String getLicensePlate() {

return licensePlate;

}

public String getModel() {

return model;

}

public boolean isRented() {

return isRented;

}

public void rent() {

isRented = true;

}

public void returnCar() {

isRented = false;

}

@Override

public String toString() {

return "Car{" +

"licensePlate='" + licensePlate + '\'' +

", model='" + model + '\'' +

", isRented=" + isRented +

'}';

}

}

public class Customer {

private String id;

private String name;

public Customer(String id, String name) {

this.id = id;

this.name = name;

}

public String getId() {

return id;

}

public String getName() {

return name;

}

@Override

public String toString() {

return "Customer{" +

"id='" + id + '\'' +

", name='" + name + '\'' +

'}';

}

}

import java.util.ArrayList;

import java.util.List;

public class RentalAgency {

private List<Car> cars;

private List<Customer> customers;

public RentalAgency() {

this.cars = new ArrayList<>();

this.customers = new ArrayList<>();

}

public void addCar(Car car) {

cars.add(car);

}

public void addCustomer(Customer customer) {

customers.add(customer);

}

public Car findCarByLicensePlate(String licensePlate) {

for (Car car : cars) {

if (car.getLicensePlate().equals(licensePlate)) {

return car;

}

}

return null;

}

public Customer findCustomerById(String id) {

for (Customer customer : customers) {

if (customer.getId().equals(id)) {

return customer;

}

}

return null;

}

public boolean rentCar(String licensePlate, String customerId) {

Car car = findCarByLicensePlate(licensePlate);

if (car != null && !car.isRented()) {

car.rent();

return true;

}

return false;

}

public boolean returnCar(String licensePlate) {

Car car = findCarByLicensePlate(licensePlate);

if (car != null && car.isRented()) {

car.returnCar();

return true;

}

return false;

}

@Override

public String toString() {

return "RentalAgency{" +

"cars=" + cars +

", customers=" + customers +

'}';

}

}