

```

import java.io.*;

public class Branch
{
    private String name;
    private Vehicle vehicles[];
    private int nb;

    public Branch(String n, int size) throws Exception
    {
        if(size <= 0)
        {
            throw new Exception("Invalid Size");
        }
        name = n;
        nb = 0;
        vehicles = new Vehicle[size];
    }

    public boolean addVehicle(Vehicle veh)
    {
        if(nb < vehicles.length)
        {
            vehicles[nb] = veh;
            nb++;
            return true;
        }
        return false;
    }

    public double sumRentedCars(int mil)
    {
        double sum = 0.00;
        for(int i=0; i<nb; i++)
        {
            if(vehicles[i] instanceof Car
            && vehicles[i].rented
            && ((Car)vehicles[i]).getMileage() < mil )
            {
                vehicles[i].computeRentalAmount();
                sum += vehicles[i].getRentalAmount();
            }
        }

        return sum;
    }
}

```

```

public void saveToFile(int nbH, double dailyR)
{
    try
    {
        File f1 = new File("cars.data");
        FileOutputStream fos1 = new FileOutputStream(f1);
        ObjectOutputStream os1 = new ObjectOutputStream(fos1);

        File f2 = new File("trucks.data");
        FileOutputStream fos2 = new FileOutputStream(f2);
        ObjectOutputStream os2 = new ObjectOutputStream(fos2);

        for(int i=0; i<nb; i++)
        {
            if(vehicles[i] instanceof Car
            && ((Car)vehicles[i]).getDailyRate() == dailyR)
            {
                os1.writeObject(vehicles[i]);
            }
            else if(vehicles[i].getNbHours() > nbH)
            {
                os2.writeObject(vehicles[i]);
            }
        }
    }
    catch(Exception e)
    {
    }
    os1.close();
    os2.close();
}
}

```