Design a **Car model class** under **package :package6** with the following attributes:

Member Field Name	**Type**
licenceNumber	String
Model	String
currentMileage	Double
engineSize	Integer

Mark all the attributes as private & create appropriate Getters & Setters

Design another **class as Main** under **package :package6**, where you need to implement logic as follows:

- Declare an array as Car with size 10.
- Take 10 Car's information from user and store them in specified array.
- Call **findCarList** method from Main class to get all cars information related to a given current Mileage & engine Size
- Current Mileage & engine Size values should be taken from Main class and pass to **findCarList** method as argument as well as Car array (with size 10).

Design **findCarList** method in **Car class** as follows:

- it will take current Mileage & engine Size as parameters and array of cars (with size 10)
- displays List of cars which have more than current Mileage and engine Size(both) for the given current Mileage & engine Size values.
- If there are no cars , then **shows "No cars found".**

```
package package6;

public class CarModel {
	private String licenceNumber;
	private String model;
	private double currentMileage;
	private int engineSize;


	public String getLicenceNumber() {
		return licenceNumber;
	}

	public void setLicenceNumber(String licenceNumber) {
		this.licenceNumber = licenceNumber;
	}

	public String getModel() {
		return model;
	}

	public void setModel(String model) {
		this.model = model;
	}

	public double getCurrentMileage() {
		return currentMileage;
	}

	public void setCurrentMileage(double currentMileage) {
		this.currentMileage = currentMileage;
	}

	public int getEngineSize() {
		return engineSize;
	}

	public void setEngineSize(int engineSize) {
		this.engineSize = engineSize;
	}


	public CarModel() {
		licenceNumber = "None";
		model = "None";
		currentMileage = 0;
		engineSize = 0;
	}
	public CarModel(String licenceNumber, String model, double currentMileage,int engineSize) {
		this.licenceNumber = licenceNumber;
		this.model = model;
		this.currentMileage = currentMileage;
		this.engineSize = engineSize;
	}

	public static void findCarList(double currentMileage, int engineSize, CarModel[] cars) {

		boolean notFound = true;
		for(int i = 0; i < cars.length; i++) {
			if(Double.compare(cars[i].getCurrentMileage(), currentMileage) > 0 &&
Integer.compare(cars[i].getEngineSize(), engineSize) > 0) {
				notFound = false;
				System.out.println("Licence number : " + cars[i].getLicenceNumber());
				System.out.println("Model : " + cars[i].getModel());
				System.out.println("Current Mileage : " + cars[i].getCurrentMileage());
				System.out.println("Engine Size : " + cars[i].getEngineSize());
				System.out.println("================================================");
			}
		}
		if(notFound) {
			System.out.println("No cars found");
		}

	}

}
```

```
package package6;

import java.util.Scanner;


public class Main {

	public static void main(String[] args) {

		CarModel[] cars = new CarModel[10];
		setCarsModel(cars);
	}

	public static void setCarsModel(CarModel[] cars) {
		Scanner input = new Scanner(System.in);
		for(int i = 0; i < cars.length; i++) {
			System.out.print("Enter licence number : ");
			String licenceNumber = input.next();

			System.out.print("Enter model : ");
			String model = input.next();

			System.out.print("Enter Current Mileage : ");
			double currentMileage = input.nextDouble();

			System.out.print("Enter Engine Size  : ");
			int  engineSize = input.nextInt();

			cars[i] = new CarModel(licenceNumber, model,
currentMileage, engineSize);

		}
		findCarModels(cars);
		input.close();
	}

	public static void findCarModels(CarModel[] cars) {
		Scanner input = new Scanner(System.in);
		System.out.print("Enter the current mileage : ");
		double currentMileage = input.nextDouble();
		System.out.print("Enter the engine size : ");
		int engineSize = input.nextInt();
		CarModel.findCarList(currentMileage, engineSize, cars);
		input.close();
	}

}
```

output:

```
Enter licence number : a
Enter model : a
Enter Current Mileage : 1
Enter Engine Size  : 1
Enter licence number : b
Enter model : b
Enter Current Mileage : 2
Enter Engine Size  : 2

Enter licence number : c
Enter model : c
Enter Current Mileage : 3
Enter Engine Size  : 3
Enter licence number : d
Enter model : d
Enter Current Mileage : 3
Enter Engine Size  : 4
Enter licence number : e
Enter model : e
Enter Current Mileage : 3
Enter Engine Size  : 5
Enter licence number : f
Enter model : f
Enter Current Mileage : 2
Enter Engine Size  : 4
Enter licence number : g
Enter model : g
Enter Current Mileage : 4
Enter Engine Size  : 6
Enter licence number : h
Enter model : h
Enter Current Mileage : 5
Enter Engine Size  : 4
Enter licence number : i
Enter model : i
Enter Current Mileage : 3
Enter Engine Size  : 7
Enter licence number : j
Enter model : j
Enter Current Mileage : 3
Enter Engine Size  : 8
Enter the current mileage : 3
Enter the engine size : 4
Licence number : g
Model : g
Current Mileage : 4.0
Engine Size : 6
================================================
```