

```
1. package ObjectsAndClassesExercise.CarSalesman;
2.
3. import java.io.BufferedReader;
4. import java.io.IOException;
5. import java.io.InputStreamReader;
6. import java.util.LinkedList;
7. import java.util.List;
8.
9. public class Main {
10.     public static class Car {
11.         private String model;
12.         private Engine engine;
13.         private String weight;
14.         private String color;
15.
16.         public Car(String model, Engine engine, String weight, String color) {
17.             this.model = model;
18.             this.engine = engine;
19.             this.weight = weight;
20.             this.color = color;
21.         }
22.
23.         public String getModel() {
24.             return model;
25.         }
26.
27.         public Engine getEngine() {
28.             return engine;
29.         }
30.
31.         public String getWeight() {
32.             return weight;
33.         }
34.
35.         public String getColor() {
36.             return color;
37.         }
38.
39.         @Override
40.         public String toString() {
41.             Engine engine = this.getEngine();
42.             return String.format("%s:%n%s%n Weight: %s%n Color: %s",
43.                 model, engine.toString(), weight, color);
44.         }
45.     }
46.
47.     public static class Engine {
48.         private String model;
49.         private int power;
50.         private String displacement;
51.         private String efficiency;
52.
53.         public Engine(String model, int power, String displacement, String efficiency) {
54.             this.model = model;
55.             this.power = power;
56.             this.displacement = displacement;
57.             this.efficiency = efficiency;
58.         }
59.     }
60. }
```

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59.
60.
61.     public String getModel() {
62.         return model;
63.     }
64.
65.     public int getPower() {
66.         return power;
67.     }
68.
69.     public String getDisplacement() {
70.         return displacement;
71.     }
72.
73.     public String getEfficiency() {
74.         return efficiency;
75.     }
76.
77.     @Override
78.     public String toString() {
79.         return String.format(" %s:%n    Power: %d%n    Displacement: %s%n    Efficiency: %s",
80.                                model,power,displacement,efficiency);
81.     }
82. }
83. public static void main(String[] args) throws IOException {
84.     BufferedReader reader = new BufferedReader(new InputStreamReader(System.in));
85.
86.     int n = Integer.parseInt(reader.readLine());
87.
88.     List<Car> carList = new LinkedList<>();
89.     List<Engine> engineList = new LinkedList<>();
90.
91.     while (n-- > 0){
92.         String[] tokens = reader.readLine().split(" ");
93.         String model = tokens[0];
94.         int power = Integer.parseInt(tokens[1]);
95.         String displacement = "n/a";
96.         String efficiency = "n/a";
97.
98.         if (tokens.length == 4){
99.             displacement = tokens[2];
100.            efficiency = tokens[3];
101.        } else if (tokens.length == 3){
102.            try {
103.                int disp = Integer.parseInt(tokens[2]);
104.                displacement = tokens[2];
105.            } catch (Exception e){
106.                efficiency = tokens[2];
107.            }
108.        }
109.        Engine engine = new Engine(model,power,displacement,efficiency);
110.        engineList.add(engine);
111.
112.    }
113.    int m = Integer.parseInt(reader.readLine());
114.
115.    while (m-- > 0){
116.        String[] tokens = reader.readLine().split(" ");
```

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117.     String model = tokens[0];
118.     String engineName = tokens[1];
119.     String weight = "n/a";
120.     String color = "n/a";
121.
122.
123.     if (tokens.length == 4){
124.         weight = tokens[2];
125.         color = tokens[3];
126.     } else if (tokens.length == 3){
127.         try {
128.             int test = Integer.parseInt(tokens[2]);
129.             weight = tokens[2];
130.         } catch (Exception e){
131.             color = tokens[2];
132.         }
133.     }
134.     Engine currentEngine = engineList.stream().filter(x -> x.getModel().equals(engineName))
135.         .findFirst().get();
136.     Car car = new Car(model,currentEngine,weight,color);
137.     carList.add(car);
138.
139.
140. }
141.
142. for (Car car : carList){
143.     System.out.println(car.toString());
144. }
145. }
146.
147. }
```