**Exercise: Defining Classes**

Problems with exercise and homework for the ["C# Advanced" course @ Software University.](https://softuni.bg/trainings/3584/csharp-advanced-january-2022)

* You can check your solutions in [Judge](https://judge.softuni.org/Contests/1479/Defining-Classes-Exercise)  
  **Raw Data**

Create a program that tracks **cars** and their **cargo**.

Start by defining a class **Car** that holds information about:

* **Model: a string property**
* **Engine: a class** with **two properties – speed** and **power,**
* **Cargo: a class** with **two properties – type** and **weight**
* **Tires:** a **collection of exactly 4 tires**. Each tire should have **two properties**: **age** and **pressure**.

Create a **constructor** that receives all of the information about the **Car** and creates and **initializes the model and** its inner **components** (**engine**, **cargo,** and **tires**).

**Input**

On the first line of input, you will receive a number **N** representing the number of cars you have.

* On the next **N** lines, you will receive information about each car in the format:

"**{model} {engineSpeed} {enginePower} {cargoWeight} {cargoType} {tire1Pressure} {tire1Age} {tire2Pressure} {tire2Age} {tire3Pressure} {tire3Age} {tire4Pressure} {tire4Age}"**

* The **speed**, **power**, **weight,** and **tire age** are **integers.**
* The **tire** **pressure** is a **floating point number.**
* Next, you will receive a single line with one of the following commands: "**fragile**" or "**flammable**"

**Output**

As an output, if the command is:

* "**fragile**" - print **all cars** whose **cargo** is **"fragile"** and **have a** **pressure of a single tire < 1**
* "**flammable**" - print **all cars**, whose **cargo** is **"flammable"** and have **engine power > 250**

**The cars should be printed in order of appearing in the input.**

**Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2  ChevroletAstro 200 180 1000 fragile 1.3 1 1.5 2 1.4 2 1.7 4  Citroen2CV 190 165 1200 fragile 0.9 3 0.85 2 0.95 2 1.1 1  fragile | Citroen2CV |
| 4  ChevroletExpress 215 255 1200 flammable 2.5 1 2.4 2 2.7 1 2.8 1  ChevroletAstro 210 230 1000 flammable 2 1 1.9 2 1.7 3 2.1 1  DaciaDokker 230 275 1400 flammable 2.2 1 2.3 1 2.4 1 2 1  Citroen2CV 190 165 1200 fragile 0.8 3 0.85 2 0.7 5 0.95 2  flammable | ChevroletExpress  DaciaDokker |