# Problem 2 – SoftUni Defense System™ 90%

Mister Royal has a birthday party and the SoftUni team is busy drinking the contents of the fridge. People are swarming the place and each one of them is bringing more and more alcohol. Or at least, **would like** to bring. There is a slight problem – the SoftUni Defense System (**SDS**) is 80 years old and it’s not up to modern times, so all alcohol is immediately detected and destroyed. The only way to get some booze to the university is if the alcohol **name starts** and **ends** with **capital** letters, and the quantity is in **litters (**denoted by **L** at the **end,** such as **12L).** The **name** of the **guest** should also **start** with a **capital** letter. All **other** letters in the guest and alcohol names must be **lowercase**.

So, you will be given lines of input such as **Gosho$$$$RakiQ####12L.** This will break the SDS, meaning that you print a message for everyone to know. The message should be **Gosho brought 12 liters of rakiq!** The input ends with the message **OK KoftiShans.** At that point, print the total amount of alcohol measured in the **SoftUni Measurement System™.** According to that system, 1 **normal** liter is 0.001 **softuni litters.**

### Input

* Until the line **OK KoftiShans** is reached, you will be given lines of input, containing only ASCII symbols.

### Output

* Print each match found on a **new line** in format **{Guest} brought {quantity} liters of {drink}!**
* On the last line, print the total quantity in SoftUni Liters, formatted to three digits after the separator

### Constraints

* The number of strings is in range [2 … 100]
* Each string length is in range [1 … 100] and can contain any ASCII character.
* The guest and alcohol names are at least two characters long and contain only English letters.
* The alcohol quantity is an integer in range [1 … 1000]
* Allowed memory/time: 16MB/0.25s

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| &^8Ivcho19112PiinyE&&100L123  Royal&&NekavgnusenroM\*\*1L  gosho9183&&BirA///123L  OK KoftiShans | Ivcho brought 100 liters of piinye!  Royal brought 1 liters of nekavgnusenrom!  0.101 softuni liters |

|  |  |
| --- | --- |
| **Input** | **Output** |
| Acho\*MnogobirA\*200LTrifon\*NishtO\*500L  Edo&&ItoinishtO\*500L  Babagicka|||peliN\*10L  OK KoftiShans | Acho brought 200 liters of mnogobira!  Trifon brought 500 liters of nishto!  Edo brought 500 liters of itoinishto!  1.200 softuni liters |