## Problem 4 – Nuts

You are given a sequence of **n** companies in format **<company> <nuts> <amount>**. Example:

- KingNuts almonds 250kg
- Rois cashews 14kg
- EatYourNuts almonds 15kg
- Rois wallnuts 14kg
- EatYourNuts brazilnuts 15kg
- Rois wallnuts 14kg
- EatYourNuts almonds 15kg

Write a program that prints all companies by name alphabetically. For each company print the type of nuts they ordered and sum the ordered amounts. Order the nuts by order of appearance. Print the result in the following format: <company>: <nut> <amount>kg, <nut> <amount>kg,... For the orders above the output should be:

- EatYourNuts: almonds-30kg, brazilnuts-15kg
- KingNuts: almonds-250kg
- Rois: cashews-14kg, wallnuts-28kg

#### Input

The input comes from the console. At the first line the number n stays alone. At the next n lines, we have n orders in format <company> <nut> <amount>kg.

The input data will always be valid and in the format described. There is no need to check it explicitly.

## Output

Print one line for each company. Company lines should be ordered in alphabetical order. For each company print the nuts ordered by this company in order of appearance, along with the total amount of nuts followed by "kg", each company in format <company>: <nut>-<amount>, <nut>-<amount>, ...

#### **Constraints**

- The **count** of the lines **n** will be in the range [1...100].
- The **<company>** and **<nut>** will consist of only of **Latin characters**, with length of [1...20].
- The **<amount>** will be integer number in the range [1...1000].
- Time limit: 0.3 sec. Memory limit: 16 MB.

# **Examples**

Input	Output
7 KingNuts almonds 250kg Rois cashews 14kg EatYourNuts almonds 15kg Rois wallnuts 14kg EatYourNuts brazilnuts	EatYourNuts: almonds-30kg, brazilnuts-15kg KingNuts: almonds- 250kg
15kg Rois wallnuts 14kg EatYourNuts almonds 15kg	Rois: cashews- 14kg, wallnuts-28 kg

Input	Output
Nutie wallnuts 20kg Nutie almonds 20kg Nutie cashews 20kg Nutie cashews 20kg Nutie almonds 20kg	Nutie: wallnuts- 20kg, almonds- 40kg, cashews- 40kg





















