C++ Advanced – Exam

The following tasks should be submitted to the SoftUni Judge system.

1. Shopping List

Help Tom go to the supermarket. He has a list of Shopping Items with a price and count of each of them.

Input

- On the **first line**, you are given an integer **number of Shopping items.**
- On the **next lines**, you are given:
    - **Name of Shopping Items**
    - **Price of Item**
    - **Shopping Item's Count**

Note: There can only be one item with the same name.

Output

- Print the total sum of the products – **"The total sum is: {total sum} lv."**
- Sort the Shopping Items by their **final price**.
    - The final price is calculated by multiplying the Shopping Item's **count** by the Shopping Item's **price** (**finalPrice = count*price**)

Note: If there are two or more items with the same price, print them in the order of their entrance.

Examples

Input	Output
5 Milk 2 2 Eggs 0.4 6 Carrots 0.3 8 Rice 1.5 3 Cheese 4.1 1	The total sum is: 17.4 lv. Rice 4.5 Cheese 4.1 Milk 4 Eggs 2.4 Carrots 2.4

Input	Output
6 Banana 0.6 10 Cream 2.2 2 Bread 1.4 2 Soda 1 3 Cucumber 0.3 2	The total sum is: 21.5 lv. Banana 6 Cake 4.7 Cream 4.4 Soda 3 Bread 2.8 Cucumber 0.6

		Cake 4.7 1	