# C++ Advanced – Exam

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

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