## Furniture

Write a program which calculates **the total cost** of bought furniture. You will be given **information about each purchase on separate lines** until you receive the command **"Purchase"**. **Valid information** should be in the format: **">>{furniture\_name}<<{price}!{quantity}"**. The **price** could be **floating-point** **or** **integer** **number**. You should store the names of the furniture and the total price.

At the end, print the **name of each bought furniture** and **the total cost**, formatted to the **second decimal point**:

**"Bought furniture:**

**{1st name}**

**{2nd name}**

**…**

**{N name}**

**Total money spend: {total\_cost}"**

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| >>Sofa<<312.23!3  >>TV<<300!5  >Invalid<<!5  Purchase | Bought furniture:  Sofa  TV  Total money spend: 2436.69 | Only the Sofa and the TV are valid, for each of them we multiply the price by the quantity and print the result |