

Problem 3 - Bakery Shop

Maria is opening a bakery shop, and she needs your help to keep track of the stock availability.

Create a program that keeps the information about the stock at the shop.

You will be receiving **lines** with commands until you receive the **"Complete"** command. The **possible** commands are:

- **"Receive {quantity} {food}":**
 - Add the **quantity** to the given **food**.
 - If the food **does not** exist, **add** it to your record.
 - If the **quantity is invalid** (≤ 0), ignore the command.
- **"Sell {quantity} {food}":**
 - If the **food is not in your record**, print: **"You do not have any {food}."**
 - If there is **not enough quantity** of the wanted food, you should sell (decrease) **what you have in stock** and then remove the **food** from your record. Print: **"There aren't enough {food}. You sold the last {sold quantity} of them."**
 - Otherwise, **decrease** the **quantity** of the given **food** and print: **"You sold {quantity} {food}."** If, after **reducing the quantity**, there is **0 amount of this food**, you should **remove** it from your record.

You must keep track of all sold food quantities!

In the end, you should **print the stock availability** in the format:

"{food1}: {quantity}"

{food2}: {quantity}"

...

{foodN}: {quantity}"

All sold: {count of all sold food quantity} goods"

Input

- You will be receiving lines until you receive the **"Complete"** command.
- The input will **always** be **valid**.

Output

- **Print the stock availability** in the **format** described above.
- **Print the amount of all sold food** in the **format** described above.

Examples

Input	Output
Receive 105 cookies Receive 10 donuts Sell 10 donuts Sell 1 bread Complete	You sold 10 donuts. You do not have any bread. cookies: 105 All sold: 10 goods
Receive 10 muffins Receive 23 bagels Sell 5 muffins Sell 10 bagels Complete	You sold 5 muffins. You sold 10 bagels. muffins: 5 bagels: 13 All sold: 15 goods