**Inbox Manager**

Create a program that manages **users** and **Emails** **sent** by **users**.

You need to keep information about their **username** and their **sent** Emails. **The Emails are represented as strings.**

You will be receiving **lines** with commands separated by "**->**" until you receive the **"****Statistics"** command. There are three **possible** commands:

* **"Add->{username}":**
  + **Check** if the username **exists** and if **it does print:**

**"{username} is already registered"**

If it doesn’t exist, then add the user to the collection of users.

* **"Send->{username}->{Email}"**
  + **Add** the **{Email} to the {username}'s collection of sent Emails.**
* **"Delete->{username}":**
  + Delete **the given user**, **if** he **exists**. If the user **doesn’t exist, print:**

"**{username} not found!**"

In the end, you have to **print the count of users, each user** with his/her **Emails.**

Users need to be sorted in **descending order** by the **count of sent Emails** and **then by** their **username** in **ascending** order in the following format:

**Users count: {count}**

**{username}**

**- {Email1}**

**- {Email2}**

**- {Emailn}**

## Input

* You will be receiving linesuntil you receive the **"Statistics"** command.
* The commands will be in the format described above.

## Output

* Print the collection in the format described above after the **"Statistics"** command.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Add->Mike  Add->George  Send->George->Hello World  Send->George->Some random test mail  Send->Mike->Hello, do you want to meet up tomorrow?  Send->George->It would be a pleasure  Send->Mike->Another random test mail  Statistics | Users count: 2  George  - Hello World  - Some random test mail  - It would be a pleasure  Mike  - Hello, do you want to meet up tomorrow?  - Another random test mail |
| **Comments** | |
| First we receive our users. Since they are not already in our collection, we add them. Then they start sending emails and in the end we print the output in the described format. | |
|  | |
| Add->Mike  Add->George  Send->George->Hello World  Send->George->Your loan is overdue  Add->Mike  Send->Mike->Hello, do you want to meet up tomorrow?  Delete->Peter  Send->George->I'm busy  Send->Mike->Another random test mail  Delete->George  Statistics | Mike is already registered  Peter not found!  Users count: 1  Mike  - Hello, do you want to meet up tomorrow?  - Another random test mail |
|  | |