# Problem 4. Roli - The Coder

Roli is really busy with the recently started JS Core and DB Fundamentals modules at SoftUni. She is used to going out with friends on a various events. However, when the times comes, you need to tell her to start coding.

Roli is the organizer of those events, so she needs to **keep track of the unique participants for each event**. She saves the events by '**ID**', which is the **unique code** for each event. **For each ID**, she **keeps the event name and the participants** for it.

She receives request in the following format:

* {**id**} #{**eventName**} @{**participant1**} @{**participant2**} … @{**participantN**}

If she is given event in an **invalid format** (such as without a hashtag), she **ignores that line of input**. If she is given ID that **already exists** she needs to check if the **eventName** is the same. If it is, she **adds** the **participants** from the **request** to the other registered participants. If the event id exists but the name doesn’t, it is invalid and you need to ignore it.

After you receive "**Time for Code**", you need to **print** the results. All events must **be sorted by participant count in descending order and then by alphabetical order**. For each event, the **participants** must be sorted in **alphabetical order**.

## Input / Constrains

* Unil you receive “Time for Code” you will get lines of input in which everything is separated by one or more blank spaces
* Until you receive "**Time for Code**", you will be receiving events in the following format:
  + {id} #{eventName} @{participant1} @{participant2} … @{participantN}

## Output

* All events must be sorted in **descending** order by participant count and **then by alphabetical order**. For each event you need to print:
  + {eventName} – {participantCount}
* On the next lines you need to print all participants. All participants for an event must be sorted alphabetically.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 1 #Beers @roli @trophon @alice  2 #GameDevMeetup @sino @valyo  3 #Karaoke @nakov @royal @ROYAL @ivo  Time for Code | Karaoke - 4  @ivo  @nakov  @royal  @ROYAL  Beers - 3  @alice  @roli  @trophon  GameDevMeetup - 2  @sino  @valyo |
| **Input** | **Output** |
| 1 #Beers @roli @trophon @alice  2 #GameDevMeetup @sino @valyo  1 #Beers2 @nakov @royal @ROYAL @ivo  1 #Beers @roli @trophon @alice @sino  3 #Rakia  Time for Code | Beers - 4  @alice  @roli  @sino  @trophon  GameDevMeetup - 2  @sino  @valyo  Rakia - 0 |