# Problem 3 – Judge Results

Judge statistics on the last exam was not working correctly, so you have the task to take all the submissions and analyze them properly. You should collect all the submission and print the final results and statistics about each language that the participants submitted their solutions in.

You will be receiving lines in the following format: "{username}<>{points}" **until you receive** "exam finished".You should store each username and his points. If you receive a username again, you need to keep his better score.  
You can receive a **command to ban** a user for cheating in the following format: "ban<>{username}". In that case, you should **remove** the user from the contest.

After receiving "exam finished" print each of the participants, ordered descending by their points, then by username, in the following format:

Results:

{username} | {points}

{username} | {points}

…

## Input / Constraints

Until you receive "exam finished" you will be receiving participant submissions in the following format: "{username}<>{points}".

You can receive a ban command: "ban<>{username}"

The points of the participant will always be a **valid integer in the range [0-100];**

## Output

* Print the exam results for each participant, ordered descending by points and then by username, in the following format:

Results:

{username} | {points}

…

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| Pesho<>84  Gosho<>70  Gosho<>84  Kiro<>94  exam finished | Results:  Kiro | 94  Gosho | 84  Pesho | 84 | When receiving Gosho for second time, we keep the better result.  We order the participant descending by points and then by name, printing only the username and the points. |
| Pesho<>91  Gosho<>84  Kiro<>90  Kiro<>50  ban<>Kiro  exam finished | Results:  Pesho | 91  Gosho | 84 | Kiro is banned so he is removed from the contest. |