# Problem 4 – Football Stats

You know that football is "The King of Sports". In our days football is not just a sport, it is business and like every business there is some stats that are needed. More important stats than everything is result of matches between teams. So now you will need to write a program that take care of all results between teams. At begging you will need to read all results from matches in format:

**{firstTeam} - {secondTeam} result {firstTeamGoals}:{secondTeamGoals}**

You will get results till you read **"Season End" command**. Then you will get one more single line with all **teams** that you need to print, **separated with ", "**. You have to print all games, that team play in format:

**{team} - {opponent} result {teamGoals}:{opponentGoals}**

All opponents for current team have to be print in alphabetical order.

### Input

The input comes from the console as **varying number** of lines. You have to parse every command until the command that follows is "Season End"**.** The input will be in the format displayed above, there is no need to check it explicitly.

### Output

For every team stats you need to print, you need to sort its opponents in alphabetical order. Result for all matches have to be in format **{teamGoals}:{opponentGoals}.**

### Constraints

* The number of teams will be in the range [1..50]
* The number of results for each teams will be in the range [1..1000]
* Time limit: 0.3 sec. Memory limit: 16 MB.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| RealMadrid - Barcelona result 5:0  RealMadrid - Atletico result 3:0  Barcelona - Atletico result 1:3  Season End  RealMadrid, Atletico, Barcelona | RealMadrid - Atletico -> 3:0  RealMadrid - Barcelona -> 5:0  Atletico - Barcelona -> 3:1  Atletico - RealMadrid -> 0:3  Barcelona - Atletico -> 1:3  Barcelona - RealMadrid -> 0:5 |
| RealMadrid - Barcelona result 5:0  Barcelona - RealMadrid result 1:2  RealMadrid - Atletico result 3:0  Atletico - RealMadrid result 0:1  Barcelona - Atletico result 1:3  Atletico - Barcelona result 0:0  Season End  RealMadrid, Atletico, Barcelona | RealMadrid - Atletico -> 3:0  RealMadrid - Atletico -> 1:0  RealMadrid - Barcelona -> 5:0  RealMadrid - Barcelona -> 2:1  Atletico - Barcelona -> 3:1  Atletico - Barcelona -> 0:0  Atletico - RealMadrid -> 0:3  Atletico - RealMadrid -> 0:1  Barcelona - Atletico -> 1:3  Barcelona - Atletico -> 0:0  Barcelona - RealMadrid -> 0:5  Barcelona - RealMadrid -> 1:2 |