# Problem 4 – Weightlifting

Soon there will be a world championship on Weightlifting and all the famous players are preparing for it. As a coach of an international team, your job is to ensure each player has sufficient training, but is not exhausted more than he should. Every day you prepare a list of exercises and at the end of the day you want to know how much the players have trained. The list will be a sequence of **N** lines holding the exercises of the players in your team for that day.

Write a program that prints **all players** **in alphabetical order**. For each player, the program should print the **type of exercise** and the total weight the player has lifted doing that exercise. The **exercises** should be **ordered alphabetically** for each player.

### Input

The input comes from the console. The first line holds the length of the input list **N**.

On the next N lines, there will be information about the exercises for that day in the following format: “**<player> <exercise> <weight> kg”**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

Print at the console **one line for each player** in the following format: **<player> : <exercise> - <weight> kg, <exercise> - <weight> kg,…**

**Constraints**

* The **count N** will be an integer number in the range [1…50].
* The **weight** will be a positive integer number.
* The input **lines** may hold **any ASCII character.**
* Time limit: 0.2 sec. Memory limit: 16 MB.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 6  Jack Squat 200 kg  John Deadlift 220 kg  John Squat 150 kg  Jack Deadlift 120 kg  John Benchpress 200 kg  John Squat 140 kg | Jack : Deadlift - 120 kg, Squat - 200 kg  John : Benchpress - 200 kg, Deadlift - 220 kg, Squat - 290 kg |
| **Input** | **Output** |
| 5  Mark Squat 500 kg  John Deadlift 220 kg  Mark Squat 50 kg  Mark Deadlift 120 kg  John Squat 200 kg | John : Deadlift - 220 kg, Squat - 200 kg  Mark : Deadlift - 120 kg, Squat - 550 kg |