# International SoftUniada

Create a program that lists the results from the International SoftUniada Competition. You will be receiving input lines in the following format:

“{countryName} -> {contestantName} -> {contestantPoints}”

You must calculate the total points of each country, which are the total points of the contestants from this country. Every contestant can take part in more than one contest in the SoftUniada and you must keep his total points from the SoftUniada competition. Each of the contestants are allowed to compete for only one country. You will be receiving the strings with that information until the “END” command is given.

In the end, print the countries with their points and their contestants with their points, ordered by the total points for the countries in descending order, in the following format:

{country}: {totalPointsForCountry}

-- {contestantName} -> {contestantTotalPoints}

-- {contestantName} -> {contestantTotalPoints}

{country}: {totalPointsForCountry}

-- {contestantName} -> {contestantTotalPoints}

-- {contestantName} -> {contestantTotalPoints}

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### Input / Constraints

* You will be receiving strings in the format described above until you receive the “**END**” command.
* The **number** of **points** in the **input argument** will be valid positive number.
* There **will** be **no invalid** **input.**

### Output

* Print the **countries** with **their total points** and the **contestants** **and their total points** in the format described above, **ordered** by the **total points** for the **countries** in **descending** order.

### Examples

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| **Input** | **Output** |
| Bulgaria -> Ivan Ivanov -> 25  Germany -> Otto Muller -> 4  England -> John Addams -> 10  Bulgaria -> Georgi Georgiev -> 18  England -> Valteri Bottas -> 8  Bulgaria -> Georgi Georgiev -> 6  END | Bulgaria: 49  -- Ivan Ivanov -> 25  -- Georgi Georgiev -> 24  England: 18  -- John Addams -> 10  -- Valteri Bottas -> 8  Germany: 4  -- Otto Muller -> 4 |
| **Comments** | |
| We receive the first input line and keep the **name** of the **country**, as well as the **contestant** and his **points**. If we have a contestant, who takes part in a **few** **competitions**, like **Georgi Georgiev**, we have to **add the points** from the second competition to the ones from the first. In the end we have to **order** the collection by the **total points** for the **countries** in **descending order**. | |
| Norway -> Botel Audun -> 14  Switzerland -> Alexis Andersson -> 18  France –> Francois Arnaud -> 10  France -> Pier Armand -> 22  Bulgaria -> Peter Petrov -> 25  France -> Francois Arnaud -> 3  Bulgaria -> Peter Petrov -> 6  END | France: 35  -- Francois Arnaud -> 13  -- Pier Armand -> 22  Bulgaria: 31  -- Peter Petrov -> 31  Switzerland: 18  -- Alexis Andersson -> 18  Norway: 14  -- Botel Audun -> 14 |