# Problem 4 – Reading Books

*Mariyka decides to sort her book shelf to be easier for her to find the book she's looking for by any criteria.*

You will receive **several input lines** in the following format:

"{author} , {bookInfo{genre, name, pages}}"

The author, genre and name are strings, the **pages** will be an integer number.

When you receive **genre** add it to the shelf's section, if it isn`t present.

A section can have only one author and each author can have only one book. However, if you receive a book with other than **integer** value, it's damaged book and it **shouldn't be added** to our shelf. After you have separated the books by their genre, you should now start adding them in the shelf. The **sorting** should be as follows:  
First by their **author's name** and then by the count of **pages** in **ascending order.**

**If a book has any of the components shown above missing, it shouldn't be added in our shelf!**

## Input / Constraints

You will receive an **array of objects** as a parameter to your solution.

* The input comes in the form in the format specified above.
* There will be **no invalid** input lines.

## Output

* The output format is:

"{genre}"

"> {author}"

">>> Book name: {bookName}, pages: {bookPages}"

"\*Total pages from genre {genre} to be read: {totalPages}"

"-------------"

***Scroll down to see examples.***

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| {**author**: **'Ivan Vazov'**, **bookInfo**: {**genre**: **'Poeziq'**, **name**: **'Epopeq na zabravenite'**, **pages**: 50}},  {**author**: **'Aleko Konstantinov'**, **bookInfo**: {**genre**: **'Patepis'**, **name**: **'Do chikago i nazad'**, **pages**: 200}},  {**author**: **'Aleko Konstantinov'**, **bookInfo**: {**genre**: **'Feyleton'**, **name**: **'Bay Ganyo'**, **pages**: 250}},  {**author**: **'Ivan Vazov'**, **bookInfo**: {**genre**: **'Roman'**, **name**: **'Pod Igoto'**, **pages**: 300}} | Poeziq:  > Ivan Vazov  >>> Book name: "Epopeq na zabravenite", pages: 50  \*Total pages from genre Poeziq to be read: 50  -------------  Patepis:  > Aleko Konstantinov  >>> Book name: "Do chikago i nazad", pages: 200  \*Total pages from genre Patepis to be read: 200  -------------  Feyleton:  > Aleko Konstantinov  >>> Book name: "Bay Ganyo", pages: 250  \*Total pages from genre Feyleton to be read: 250  -------------  Roman:  > Ivan Vazov  >>> Book name: "Pod Igoto", pages: 300  \*Total pages from genre Roman to be read: 300  ------------- |