# Problem 3 – Book Info

Maryika is a regular customer to the local bookstore and when she was offered to help reordering the database with authors and books, she couldn't refuse. Write a JavaScript program which **sorts and orders** the database.

Maryika is given plain text and each sentence of the text contains information about the author and its writings. She first extracs the author's name which will always be **enclosed in** **underscores** (**\_**). A **valid** author name has the following features:

* contains **at least two** words;
* always starts with an **uppercase Latin letter**, followed by a number of **lowercase letters**
* some names may contain **apostrophe (')** or **dot (.)**

After that she proceeds with extracting information about each book **following the listed rules**:

* each **valid** book string consist of **book name, genre and year connected with an arrow (->)**
  + book names are **enclosed in quotes;** contain **upper and lowercase Latin letters** and some punctuation marks: **- ' / : ! ,?**
  + genres consist of **one or more** words; some may contain **common slash (/)**, **dashes** or **apostrophes**
  + the year is always a **4-digit number**, **starting with 1**

After extracting only the **valid** information, she prints each author and an alphabetically sorted list of his writings as shown in the examples.

If there are **no writings** for a specified auhor, print the **following message** (check examples):

"No books of {name of the author} are currently in stock."

If there are **sentences with missing authors and books**, print their **numbers** in the end of the output in the **following format** (check examples):

"Sentences with missing information: {numbers of a sentences with missing information}"

### Input

You will receive **one argument** – **text**.

### Output

On the first line print the **author and the number of his writings** and on the next few lines print his **books** with **genres** and **years**, each on a new line. **Use the following formatting:**

|  |
| --- |
| **{author1}: {number of books}**  **->Book name: {book1} Genre: {genre} Year: {year}**  **->Book name: {book2} Genre: {genre} Year: {year}**  **…**  **{author2}: {number of books}**  **->Book name: {book1} Genre: {genre} Year: {year}**  **…** |

### Examples

|  |
| --- |
| **Input** |
| '\_Ian Flemming\_ wrote "Casino Royal"->Spy novel->1966 and many other books about James Bond including "Goldfinger"->Crime->1970, "Live and Let die"->Spy / Crime->1964 and many others. Hi. \_Stephen King\_ wrote books. \_Bram Stoker\_ wrote "Dracula"->Horror->1897. Hi again. \_Guy de Maupassant\_ wrote "Bel-Ami"->Romance->1885.' |
| **Output** |
| Ian Flemming: 3  ->Book name: "Casino Royal" Genre: Spy novel Year: 1966  ->Book name: "Goldfinger" Genre: Crime Year: 1970  ->Book name: "Live and Let die" Genre: Spy / Crime Year: 1964  No books of Stephen King are currently in stock.  Bram Stoker: 1  ->Book name: "Dracula" Genre: Horror Year: 1897  Guy de Maupassant: 1  ->Book name: "Bel-Ami" Genre: Romance Year: 1885  Sentences with missing information: 2, 5 |
| **Input** |
| '\_George Orwell\_ is mainly famous for writing the novels "1984"->Distopian novel->1949 and "Animal Farm"->Allegorical Novella->1945. Another author writing in similar genres is \_Joseph Heller\_.' |
| **Output** |
| George Orwell: 2  ->Book name: "1984" Genre: Distopian novel Year: 1949  ->Book name: "Animal Farm" Genre: Allegorical Novella Year: 1945  No books of Joseph Heller are currently in stock. |
| **Input** |
| 'There have been more than 20 biographies of Mary Wollstonecraft Shelley, including one in 1951 by Muriel Spark and one in 2001, considered by many to be definitive, by Miranda Seymour, who had access to previously unpublished documents. There is even a Mary Shelley encyclopedia. But Mary\'s life has unending fascination — her elopement as a pale, beautiful, brilliant 16-year-old with Percy Bysshe Shelley, who was already married with a child; her starring role in Lord Byron\'s famous challenge to the assembled company that rainy night on Lake Geneva, that each produce a ghost story. Of course, Mary, not either of the male poets, won the challenge. Thus was born "Frankenstein; Or, The Modern Prometheus,".' |
| **Output** |
| Sentences with missing information: 1, 2, 3, 4, 5 |