Problem C

Academic Journals

Time limit: 1 second

As a lecturer, it is important to learn in addition to teaching. In that way, students whom the lecturer teaches will always have the most updated knowledge. Otherwise, students will be filled with many outdated information, which makes them not ready for facing industry. In terms of learning, research is a promising alternative since it does not only enhance lecturer's knowledge but also contributes to the body of knowledge. Lim, as an early-career lecturer, is really motivated with this concept. He therefore does research in addition to teaching; wherein most of his research works are published on academic journals.

After several years, the number of his journal articles has become too high, making him difficult to manage. He then asks you, his supervised student, to make a small program for him. Such program accepts the metadata of journal articles and then sorts them based on a set of rules. Each metadata has six fields which are title (string), subtitle (string), journal name (string), journal volume (integer), journal issue (integer), and journal publication year (integer). Initially, Lim wanted to sort them only based on title in descending order. However, he changes his mind and provides the rules below:

- Articles are grouped per journal name. If there are several journal names, make them sorted ascending.
- All articles with similar journal name will be sorted in ascending order based on their publication year.
- If some articles have similar journal name and publication year, sort them in ascending order based on their volume. If two or more articles still has similar volume, try to sort ascendingly based on their issue.
- Articles with similar journal name, volume, issue, and publication year will be sorted in ascending order based on its title. If some articles have similar title, try to sort them based on subtitles in ascending order.

Input

Program will accept N (0<N<100) as its first input and then accept N journal article metadata. For each metadata, the program will accept its title first, followed by subtitle, journal name, journal volume, journal issue, and journal publication year.

Output

Please take note that the output's format should be similar as the one given in sample output: journal information is prefixed with an underscore, each field content is separated with a space and ":" with its field name, and each metadata is ended with a newline.

Sample Input 1:

```
3
Source Code Plagiarism Detection
A Structure-based Approach
Journal of Computer
44
4
2017
Introducing An Educational Tool for Data
Structure
A Case Study
Journal of Educational Tool
12
2
2017
Information Retrieval Definition
Student Perspectives
Journal of Computer
42
1
2015
```

Sample Output 1:

```
title: Information Retrieval Definition
subtitle: Student Perspectives
journal info
_name: Journal of Computer
_volume: 42
_issue: 1
_publication year: 2015

title: Source Code Plagiarism Detection
subtitle: A Structure-based Approach
journal info
_name: Journal of Computer
_volume: 44
_issue: 4
_publication year: 2017

title: Introducing An Educational Tool for Data
Structure
subtitle: A Case Study
journal info
_name: Journal of Educational Tool
_volume: 12
_issue: 2
_publication year: 2017
```

Sample Input 2:

```
3
Source Code Plagiarism Detection
A Structure-based Approach
Journal of Computer
44
4
2017
Introducing An Educational Tool for Data
Structure
A Case Study
Journal of Computer
44
4
2017
Information Retrieval Definition
Student Perspectives
Journal of Computer
44
4
2017
```

Sample Output 2:

```
title: Information Retrieval Definition
subtitle: Student Perspectives
journal info
_name: Journal of Computer
_volume: 44
_issue: 4
_publication year: 2017

title: Introducing An Educational Tool for Data
Structure
subtitle: A Case Study
journal info
_name: Journal of Computer
_volume: 44
_issue: 4
_publication year: 2017

title: Source Code Plagiarism Detection
subtitle: A Structure-based Approach
journal info
_name: Journal of Computer
_volume: 44
_issue: 4
_publication year: 2017
```