

Calendar

Write a Python program to manage an event calendar. All events are assumed to be in the same year. The scheduled events are stored in a file “*events.txt*”, one per row, with the following format:

<day>;<hour>;<event description>

Make the following assumptions:

- The field <day> is an integer between 1 and 365
- The field <hour> is an integer between 0 and 23, represented with two digits (i.e. 00, 01, ... up to 23)
- The field <event description> is a string of characters (that may contain spaces)
- There can be more events on the same day, but not at the same time on the same day
- The file is not sorted
- The file is correct

The program should support the following operations:

- Print the events of a given day, sorted by time
- Insert a new event (given day, time, and description) in the calendar. The insertion should be done only if no other event is already present for the requested day / time combination. In case it's not possible to add the event, the program must print “*Cannot insert event*”, otherwise it must print “*Event inserted*”, and visualize all the events of the same day (including the newly inserted one).

The commands are stored in a file “*commands.txt*”, one per line. All commands in the file must be processed sequentially. The commands can be either

v <day>

i.e., visualize events of day <day>), or

i <day> <hour> <event description>

i.e., insert the event <event description> on day <day> at time <time>

Example

Given the file *events.txt*

```
10;12;Lunch with boss
17;17;Work meeting
17;09;Computer science exam
100;10;Doctor
75;20;Dinner with friends
```

and the file *commands.txt*

```
v 17
i 100 10 Press conference
i 120 10 Press conference
```

the output of the program should be

Events of day 17:

09: Computer science exam

17: Work meeting

Cannot insert event

Event inserted

Events of day 120:

10: Press conference