

## Most Active Cookie

Given a cookie log file in the following format:

```
cookie,timestamp
AtY0laUfhgIK3IC7,2018-12-09T14:19:00+00:00
SAZuXPGUrfbcn5UA,2018-12-09T10:13:00+00:00
5UAVanZf6UtGyKVS,2018-12-09T07:25:00+00:00
AtY0laUfhgIK3IC7,2018-12-09T06:19:00+00:00
SAZuXPGUrfbcn5UA,2018-12-08T22:03:00+00:00
4sMM2LxV07bPJzwf,2018-12-08T21:30:00+00:00
fbcn5UAVanZf6UtG,2018-12-08T09:30:00+00:00
4sMM2LxV07bPJzwf,2018-12-07T23:30:00+00:00
```

Write a command line program in your preferred language to process the log file and return the most active cookie for specified day. The example below shows how we'll execute your program.

### Command:

```
$ ./most_active_cookie cookie_log.csv -d 2018-12-09
```

### Output:

```
AtY0laUfhgIK3IC7
```

We define the most active cookie as one seen in the log the most times during a given day.

### Assumptions:

- If multiple cookies meet that criteria, please return all of them on separate lines.

```
$ ./most_active_cookie cookie_log.csv -d 2018-12-08
```

```
SAZuXPGUrfbcn5UA
4sMM2LxV07bPJzwf
fbcn5UAVanZf6UtG
```

- You're only allowed to use additional libraries for testing, logging and cli-parsing. There are libraries for most languages which make this too easy (e.g pandas) and we'd like you to show off your coding skills.
- You can assume `-d` parameter takes date in UTC time zone.
- You have enough memory to store the contents of the whole file.
- Cookies in the log file are sorted by timestamp (most recent occurrence is first line of the file).

We're looking for a concise, maintainable, extendable and correct solution. We're hoping you'll deliver your solution as **production grade code** and demonstrate:

- good testing practices,
- knowledge of build systems, testing frameworks, etc.
- clean coding practices (meaningful names, clean abstractions, etc.)

**Please use a programming language you're very comfortable with. The next stage of the interview will involve extending your code.**