

Assignment

The mega-corporation Buffel & Båg AB has a custom-built system for handling meetings which has been around since the beginning of time and which is now deemed too difficult to use. Since management doesn't know how important the system is they have invested far too little resources in the upgrade project, and have decided to hire a single poor contractor (guess who) to solve the most important problems in almost no time.

At regular intervals, all information is dumped from the existing system to a text file that can be downloaded from a publicly available API (see link further down).

An excerpt from the file can look like this:

```
170378154979885419149243073079764064027;Colin Gomez  
170378154979885419149243073079764064027;2/18/2014 10:30:00 AM;2/18/2014 11:00:00 AM;485D2AEB9DBE3...  
139016136604805407078985976850150049467;Minnie Callahan  
139016136604805407078985976850150049467;2/19/2014 10:30:00 AM;2/19/2014 1:00:00 PM;C165039FC08AB4...
```

As it seems, the file has lines in two different formats where the first one contains employee id and display name and the second format has information on the time slots where the employee is busy and therefore not available for meetings.

Unfortunately, everyone who knew something about the old system has fled the company a long time ago. Questions regarding how the system should work can however be answered. Good luck, and always remember:



“

Always code as if the person who ends up maintaining your code will be a violent psychopath who knows where you live.

”

Requirements

As a first step, management has asked for an application implemented in the browser. The application should provide a UI that makes it possible for users to get suggestions for suitable meeting times based on the following parameters:

- participants (employee ids), one or multiple
- desired meeting length (minutes)
- earliest and latest requested meeting date and time
- office hours (e.g. 08-17)

The following can be good to know:

- In the file, all times are stated in UTC. To keep things simple, don't bother with implementing support for local date-times unless your solution gives you that for free
- People work every day of the week at Buffel & Båg AB
- Due to the crappy state of the existing system the file may contain some irregularities, these should be ignored
- The system only handles meetings that start every full and half hour, e.g. 08.00, 08.30, 09.00, etc.
- Make the solution work in Chrome, you can ignore all other browsers

Your solution will be evaluated on aspects like:

- The structure and the quality of the code
- How easy it is to understand
- How you verify that the solution works

Keep in mind that a perfect solution is not the primary goal of the assignment, but rather to see how you interpret and work on the problem and the code you write.

Link to the file: <https://builds.lundalogik.com/api/v1/builds/freebusy/versions/1.0.0/file>

When handing in the solution

- Please include a README explaining how to run the solution.
- Please do not upload your result to a public site.