

Opening hours assignment (frontend)

Version 2.6

Your task is to write a program that takes JSON-formatted opening hours of a restaurant as an input and outputs hours as presented it the following design:

```
Opening hours
Monday
                         Closed
Tuesday
                    10 AM - 6 PM
Wednesday
                         Closed
Thursday
                    10 AM - 6 PM
Friday TODAY
                    10 AM - 1 AM
Saturday
                    10 AM - 1 AM
                    12 PM - 9 PM
Sunday
```

Input JSON consist of keys indicating days of a week and corresponding opening hours as values. One JSON file includes data for one restaurant.

{

```
\textbf{Day of week:} \ \texttt{monday} \ | \ \texttt{tuesday} \ | \ \texttt{wednesday} \ | \ \texttt{thursday} \ | \ \texttt{friday} \ | \ \texttt{saturday} \ | \ \texttt{sunday}
Opening hours: an array of objects containing opening hours.
Each object consist of two keys:
   • type: open | close
```

 value: number (opening / closing time as seconds past midnight), e.g. 32400 = 9 AM, 37800 = 10.30 AM, max value is 86399 = 11.59:59 PM

{ "type": open, "value": 32400 }, { "type": close, "value": 72000 }

Example: on Mondays a restaurant is open from 9 AM to 8 PM

```
Special cases
  • If a restaurant is closed the whole day, an array of opening hours is empty.
       o "tuesday": [] means a restaurant is closed on Tuesdays
```

• E.g. a restaurant is opened on a Sunday evening and closed on early Monday morning.

"friday": [

"saturday": [

"type": "close",

{

"monday": [

In that case sunday object includes only the opening time. Closing time is part of the monday object.

• A restaurant can be opened and closed multiple times during the same day

• E.g. on Mondays from 9 AM - 11 AM and from 1 PM to 5 PM

A restaurant might not be closed during the same day

- o When printing opening hours which span between multiple days, closing time is always a part of the day when a restaurant was opened (e.g. Sunday 8 PM - 1 AM)
- "type": "open", "value": 64800

```
"value": 3600
     },
       "type": "open",
       "value": 32400
     },
       "type": "close",
       "value": 39600
     },
       "type": "open",
      "value": 57600
     },
       "type": "close",
      "value": 82800
   ]
In the example above the opening hours area as follows:
 Friday: 6 PM - 1 AM
 Saturday: 9 AM -11 AM, 4 PM - 11 PM
See full example on the last page
Logical output
Opening hours must be printed using 12-hour clock. Example of logical output:
 Monday: 8 AM - 10 AM, 11 AM - 6 PM
 Tuesday: Closed
```

Reading input and formatting output A minimum requirement is to read JSON data from a file and output opening hours in a view that is

Wednesday: 11 AM - 6 PM Thursday: 11 AM - 6 PM Friday: 11 AM - 9 PM Saturday: 11 AM - 9 PM

Sunday: Closed

specific skills.

Tech & tools We prefer a typed language that compiles to JavaScipt (e.g. TypeScript) to be used, but we will consider JavaScript submissions, too. 3rd party libraries and frameworks are allowed.

Our suggestion is that you try to implement this solution with the same quality and care as you would expect from production-level pull requests, even if some typical requirements (like automatic error

Bundle everything into a Zip archive and email it to us. Remember that it is easier for us to review your

A good check before sending the Zip is to unarchive it into a new folder and check that building and running the project works using the steps you define in ${\tt README.md}$. Forgotten dependencies and

designed based on the layouts provided. However, this is where you can dazzle us with your platform

Deliverable

task if we can test / run it.

Design assets

Black

#202125 rgb(32, 33, 37)

Grey 1

#F8F8F8

Example

Example

Roboto Bold / 24 px / 30 px

Roboto Regular / 16 px / 22 px

Approach & expectations

reporting) don't make sense to be added.

instructions can sometimes happen even to the best of us.

White

#FFFFFF

Grey 2

#EEEEEE

rgb(255, 255, 255)

Design assets to help you implement the UI Colors

Green

#5BCB02

Grey 3

#A1A2A4

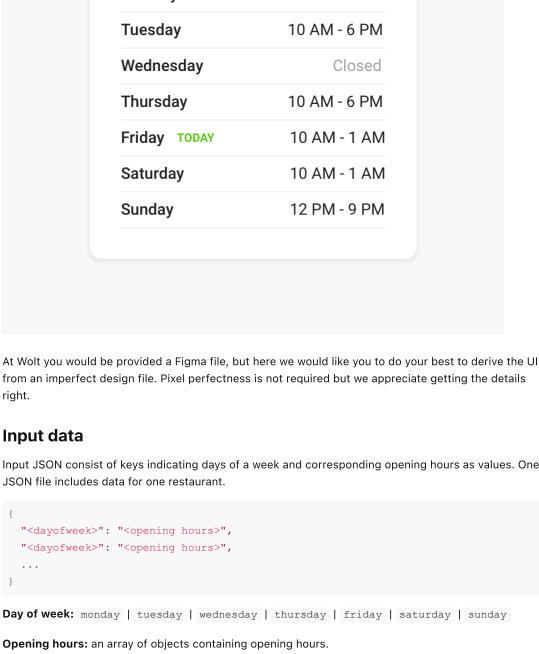
rgb(87, 204, 20)

rgb(248, 248, 248) rgb(238, 238, 238,) rgb(161, 162, 164) **Font**

```
Roboto Medium / 16 px / 22 px
 EXAMPLE
 Roboto Bold / 12 px / 16 px
Full data formatting example
   "monday": [],
   "tuesday": [
    { "type": "open", "value": 36000 },
    { "type": "close", "value": 64800 }
   "wednesday": [],
   "thursday": [
    { "type": "open", "value": 36000 },
     { "type": "close", "value": 64800 }
  ],
  "friday": [{ "type": "open", "value": 36000 }],
   "saturday": [
```

https://fonts.google.com/specimen/Roboto

```
{ "type": "close", "value": 3600 },
     { "type": "open", "value": 36000 }
   ],
   "sunday": [
     { "type": "close", "value": 3600 },
     { "type": "open", "value": 43200 },
     { "type": "close", "value": 75600 }
}
In the example above the opening hours area as follows:
Monday: Closed
Tuesday: 10 AM - 6 PM
Wednesday: Closed
Thursday: 10 AM - 6 PM
```



Friday: 10 AM - 1 AM Saturday: 10 AM - 1 AM Sunday: 12 PM - 9 PM