



In the spring of 2020 the world has experienced an unprecedented in modern history event - a pandemic that killed tens of thousands of people and resulted in a

global economic recession; tens of millions lost their jobs. You are called to help rebuild the economy and develop an system that can protect people from infection while still allow them to go back to work.

One of the ways that this can be achieved is by maintaining a certain density of people in buildings. To do that, we need to engineer a reservation (booking) system where each user uses a messaging app to reserve a time slot (period) that he or she is allowed in the building, by entering the destination address and desired arrival time and length of stay.

```
with open('data.p', 'rb') as fp:
    data = pickle.load(fp)
```

This code will be helpful for you to load data from the file.

Use the below code as reference to split strings into lists and access them.

```
import pickle
string = 'hello,world'
tokens = string.split(',')
for tok in tokens:
    print(tok)
```

A request will look like this. (It is a basic dictionary with some parameters defined in it)

```
{'start_time': '00:30',
 'end_time': '01:00',
 'lat': -44.145238,
 'long': 74.152452,
 'time_spent': 0.5,
 'people': 2},
```

Your work is to try to keep a limit on the number of requests/people you allow, thus trying to allow as many as possible but under a threshold for a building so that you can maintain social distancing.

You are free to have a choice of threshold. Happy Quarantine working!