The Meta: Backend Engineer Coding Challenge

One of our backend stacks has the following structure: two worker machines that process data as it is appears in an AWS S3-style bucket from an external provider. The purpose of this exercise is to simulate that process in a way to make sure that files are processed properly

This external provider puts files into the bucket with the following filename format: 2020_08_18_02_15.txt, which represents the date (2020/08/18) and time (02:15 AM, based on a 24-hour clock). The provider puts these files into the bucket at (roughly) 15-minute intervals, though they must process the data, so there can be a delay of up to a few minutes. Within each file is a set of binary JSON objects that are, with some minor modification, turned into tab-delimited files for loading into a relational database.

Unfortunately, loading the data, decoding the JSON blobs and writing the files is time consuming and requires two machines to keep up with the data being produced. Also, because of the data generating process, the files can be uneven in size, meaning that one file can take a long time to process and the next one may take a very short amount of time. The hard part is keeping straight which files have been processed and which ones have not. Finally, each process should be robust to the other process failing.

The appendix of this document contains a list of files and the approximate time that it takes to process each one. To complete this assignment, please do the following:

- 1. Using Node.js, write a script that can process and load the data on two different processes. In particular, this script should take as its input (at a minimum) where the files will be found. It will wait until it sees files and process them, while dealing with the potential that another process may also be running.
- 2. When a machine begins processing a file it should simulate the processing time for that file based on the information in the appendix.
- 3. You should presume that the files appear in the directory at the time that associated with their file name. In other words, your algorithm cannot presume that all files are there when you ask for them.
- 4. The file simulation.py (attached to this assignment) will populate a directory at the correct time with files which contain the runtime, in minutes, within each file. Note that this file has a parameter "secondsInMin" which can be used to speed up the entire process for simulation purposes. It is recommended to put a similar parameter in your code.
- 5. You should use any standard library

Your code will be evaluated by having it called from the command line twice (like below)

```
% node your code.js ARGUMENTS &
```

[%] node your code.js ARGUMENTS &

[%] python simulation.py DIRECTORY &

Just to be clear: there will be *two* processes running your code at the same time, both of which should be processing files from the same directory. These processes need to process all files which appear in the directory without conflicting with each other or processing the same file twice.

What we are looking for:

- Good clean code and comments.
- If you made assumptions, that is fine, just describe them!

2018_06_28_00_15.txt	Filename	ProcessingTime
2018_06_28_00_30.txt	2018_06_28_00_00.txt	22.5050828
2018_06_28_00_45.txt 18.2287935 2018_06_28_01_00.txt 12.8346711 2018_06_28_01_15.txt 33.6345902 2018_06_28_01_30.txt 22.640068 2018_06_28_01_45.txt 26.1400089 2018_06_28_02_00.txt 17.5672472 2018_06_28_02_15.txt 28.004201 2018_06_28_02_30.txt 19.2419392 2018_06_28_02_30.txt 19.2419392 2018_06_28_03_00.txt 36.979999 2018_06_28_03_15.txt 24.2475979 2018_06_28_03_30.txt 20.0994091 2018_06_28_03_45.txt 20.5797647 2018_06_28_04_00.txt 18.1857038 2018_06_28_04_15.txt 35.2466807 2018_06_28_04_15.txt 35.2466807 2018_06_28_04_30.txt 36.7162491 2018_06_28_04_45.txt 31.164888 2018_06_28_05_30.txt 34.3604648 2018_06_28_05_30.txt 32.8551499 2018_06_28_05_30.txt 32.8551499 2018_06_28_06_30.txt 34.3742056 2018_06_28_06_30.txt 35.7792421 2018_06_28_06_30.txt 35.7792421 2018_06_28_07_15.txt 34.003378	2018_06_28_00_15.txt	36.2682872
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2018_06_28_05_45.txt 32.8551499 2018_06_28_06_00.txt 28.301116 2018_06_28_06_15.txt 36.2694804 2018_06_28_06_30.txt 34.3742056 2018_06_28_06_45.txt 25.143707 2018_06_28_07_00.txt 35.7792421 2018_06_28_07_15.txt 23.7838607 2018_06_28_07_30.txt 30.3121944 2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_05_15.txt	34.3604648
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2018_06_28_06_30.txt 34.3742056 2018_06_28_06_45.txt 25.143707 2018_06_28_07_00.txt 35.7792421 2018_06_28_07_15.txt 23.7838607 2018_06_28_07_30.txt 30.3121944 2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_06_00.txt	28.301116
2018_06_28_06_45.txt 25.143707 2018_06_28_07_00.txt 35.7792421 2018_06_28_07_15.txt 23.7838607 2018_06_28_07_30.txt 30.3121944 2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_06_15.txt	36.2694804
2018_06_28_07_00.txt 35.7792421 2018_06_28_07_15.txt 23.7838607 2018_06_28_07_30.txt 30.3121944 2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_06_30.txt	34.3742056
2018_06_28_07_15.txt 23.7838607 2018_06_28_07_30.txt 30.3121944 2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_06_45.txt	25.143707
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2018_06_28_07_45.txt 34.003378 2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_07_15.txt	23.7838607
2018_06_28_08_00.txt 28.4348137 2018_06_28_08_15.txt 30.4120305 2018_06_28_08_30.txt 20.290891	2018_06_28_07_30.txt	30.3121944
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