Resources

Read or watch:

```
10 minutes to Pandas
Complete Python Pandas Data Science Tutorial! (Reading CSV/Excel files,
Sorting, Filtering, Groupby)
```

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone, without the help of Google:
General

```
What is pandas?
What is a pd.DataFrame? How do you create one?
What is a pd.Series? How do you create one?
How to load data from a file
How to perform indexing on a pd.DataFrame
How to use hierarchical indexing with a pd.DataFrame
How to slice a pd.DataFrame
How to reassign columns
How to sort a pd.DataFrame
How to use boolean logic with a pd.DataFrame
How to merge/concatenate/join pd.DataFrames
How to get statistical information from a pd.DataFrame
How to visualize a pd.DataFrame
```

Requirements
General

```
Allowed editors: vi, vim, emacs
All your files will be interpreted/compiled on Ubuntu 16.04 LTS using python3
(version 3.5)
Your files will be executed with numpy (version 1.15) and pandas (version 0.24)
All your files should end with a new line
The first line of all your files should be exactly #!/usr/bin/env python3
All of your files must be executable
A README.md file, at the root of the folder of the project, is mandatory
Unless otherwise noted, you can only use import pandas as pd
Your code should follow the pycodestyle style (version 2.4)
All your modules should have documentation (python3 -c
'print(__import__("my_module").__doc__)')
All your classes should have documentation (python3 -c
'print(__import__("my_module").MyClass.__doc__)')
All your functions (inside and outside a class) should have documentation
```

```
(python3 -c 'print(__import__("my_module").my_function.__doc__)' and python3 -c
'print(__import__("my_module").MyClass.my_function.__doc__)')
```

Download Pandas 0.24.x

pip install --user pandas

Datasets

For this project, we will be using the coinbase and bitstamp datasets, as seen previously in 0x0E. Time Series Forecasting