In [1]:
```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
```

In [3]:
```
cd pyber
```

```
C:\Users\craig\desktop\PythonCode\python-challenge\pyber
```

In [9]:
```
# Load in file
city_data = "city_data.csv"
ride_data = "ride_data.csv"
```

In [10]:
```
# Create DataFrame from city CSV
city_df = pd.read_csv(city_data, low_memory=False)
city_df.head()
```

Out[10]:

	city	driver_count	type
0	Kelseyland	63.0	Urban
1	Nguyenbury	8.0	Urban
2	East Douglas	12.0	Urban
3	West Dawnfurt	34.0	Urban
4	Rodriguezburgh	52.0	Urban

In [13]:
```
# Create DataFrame from ride CSV
ride_df = pd.read_csv(ride_data, low_memory=False)
ride_df.head()
```

Out[13]:

	city	date	fare	ride_id
0	Sarabury	1/16/2016 13:49	38.35	5.403690e+12
1	South Roy	1/2/2016 18:42	17.49	4.036270e+12
2	Wiseborough	1/21/2016 17:35	44.18	3.645040e+12
3	Spencertown	7/31/2016 14:53	6.87	2.242600e+12
4	Nguyenbury	7/9/2016 4:42	6.28	1.543060e+12

In [15]:
```
# Merge the two created data frames by city
merged_df = pd.merge(city_df, ride_df, on = "city", how="outer")
merged_df.head()
```

```
---------------------------------------------------------------------------
MemoryError                               Traceback (most recent call last)
<ipython-input-15-35a7976c18b6> in <module>()
      1 # Merge the two created data frames by city
----> 2 merged_df = pd.merge(city_df, ride_df, on = "city", how="outer")
      3 merged_df.head()

C:\Users\craig\Anaconda3\envs\PythonData\lib\site-packages\pandas\core\reshape
\merge.py in merge(left, right, how, on, left_on, right_on, left_index, right_i
ndex, sort, suffixes, copy, indicator)
     52                          right_index=right_index, sort=sort, suffixes=s
uffixes,
     53                          copy=copy, indicator=indicator)
---> 54     return op.get_result()
     55
     56

C:\Users\craig\Anaconda3\envs\PythonData\lib\site-packages\pandas\core\reshape
\merge.py in get_result(self)
    567                 self.left, self.right)
    568
--> 569         join_index, left_indexer, right_indexer = self._get_join_info()
    570
    571         ldata, rdata = self.left._data, self.right._data

C:\Users\craig\Anaconda3\envs\PythonData\lib\site-packages\pandas\core\reshape
\merge.py in _get_join_info(self)
    732         else:
    733             (left_indexer,
--> 734              right_indexer) = self._get_join_indexers()
    735
    736             if self.right_index:

C:\Users\craig\Anaconda3\envs\PythonData\lib\site-packages\pandas\core\reshape
\merge.py in _get_join_indexers(self)
    711                                       self.right_join_keys,
    712                                       sort=self.sort,
--> 713                                       how=self.how)
    714
    715     def _get_join_info(self):

C:\Users\craig\Anaconda3\envs\PythonData\lib\site-packages\pandas\core\reshape
\merge.py in _get_join_indexers(left_keys, right_keys, sort, how, **kwargs)
    996     join_func = _join_functions[how]
    997
--> 998     return join_func(lkey, rkey, count, **kwargs)
    999
   1000

pandas\_libs\join.pyx in pandas._libs.join.full_outer_join (pandas\_libs\join.
c:123245)()
```

`MemoryError:`

In [ ]: