3.2_JakeDineen

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In [9]:
```
import os
os.getcwd()
nbafile = open('nba-attendance-1989.txt', 'r') #Read in the file
nbalist = []
for i in nbafile: #Write the file to a new list with some operations
    textline = i.strip()
    items = textline.split()
    nbalist.append(items)
```

Out[9]:
```
[['Atlanta', '13993', '20.06'],
 ['Boston', '14916', '22.54'],
 ['Charlotte', '23901', '17'],
 ['Chicago', '18404', '21.98'],
 ['Cleveland', '16969', '19.63'],
 ['Dallas', '16868', '17.05'],
 ['Denver', '12668', '17.4'],
 ['Detroit', '21454', '24.42'],
 ['Golden_State', '15025', '17.04'],
 ['Houston', '15846', '17.56'],
 ['Indiana', '12885', '13.77'],
 ['LA_Clippers', '11869', '21.95'],
 ['LA_Lakers', '17378', '29.18'],
 ['Miami', '15008', '17.6'],
 ['Milwaukee', '16088', '14.08'],
 ['Minnesota', '26160', '10.92'],
 ['New_Jersey', '12160', '13.31'],
 ['New_York', '17815', '22.7'],
 ['Orlando', '15606', '20.47'],
 ['Philadelphia', '14017', '19.04'],
 ['Phoenix', '14114', '16.59'],
 ['Portland', '12884', '22.19'],
 ['Sacramento', '17014', '16.96'],
 ['San_Antonio', '14722', '16.79'],
 ['Seattle', '12244', '18.11'],
 ['Utah', '12616', '18.41'],
 ['Washington', '11565', '14.55']]
```

In [45]:
```
import numpy as np
import pandas as pd

#Separate lists for vars
teams = []
attendance = []
price = []

#Write each feature to a list
for team, att, pric in nbalist:
    teams.append(team)
    attendance.append(int(att))
    price.append(float(pric))

#Display the total attendance, average attendance,
#the max attendance with the team name, and the max ticket price with the team name.

print('Total Attendance:', np.sum(attendance))
print('Avg Attendance', np.round(np.mean(attendance), 2))

max_att = np.max(attendance)
max_team = teams[attendance.index(max_att)]
print('Max Attendance by Team: |Team = {} | Attendance = {}'.format(max_team,max_att)

max_tick = np.max(price)
max_team_tic = teams[price.index(max_tick)]
print('Max TicketPrice by Team: |Team = {} | Price = ${}'.format(max_team_tic,max_tic
```

```
Total Attendance: 424189
Avg Attendance 15710.7
Max Attendance by Team: |Team = Minnesota | Attendance = 26160
Max TicketPrice by Team: |Team = LA_Lakers | Price = $29.18
```