## Sathish\_K\_Rajendiran\_Week3\_Async\_3.2\_Data\_Exploration

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## 3.2 Data Exploration:

Write your own program (or build on the one you wrote before) to read the NBA Attendance file

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```
[138]: import os os.getcwd()
```

[138]: '/Users/sathishrajendiran/ist652-python'

```
[140]: # Working with file, list and sorting
       try:
           NBAfile = open ('/Users/sathishrajendiran/ist652-python/NBA-Attendance-1989.
        ⇔txt', 'r')
       except:
           print("Is the file in correct directory?")
       # Create a dummy list
       NBAlist = []
       for line in NBAfile:
           textline = line.strip()
           # split the line on whitespace
           lines = textline.split()
           # add the list of items to the NBAlist
           NBAlist.append(lines)
       1 = len(NBAlist)
       print('\n Number of lines :',1)
       for line in NBAlist:
           print('>',line)
```

```
> ['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']
[141]: #NBAlist[0]
       team,attendance,price =NBAlist[0]
       # print(team, attendance, price)
       #find average attendance
       attendances = []
       prices = []
       teams = []
       for (team, attendance, price) in NBAlist:
           attendances.append(int(attendance))
           prices.append(float(price))
           teams.append(team)
       # print('\n teams:',teams)
       # print('\n attendances:',attendances)
```

Number of lines: 27

```
# print('\n prices:',prices)
# print(teams[attendances.index(max(attendances))])
try:
   if 1>0:
        if sum(attendances)>0:
            max_team = teams[attendances.index(max(attendances))]
            avg_attendance = sum(attendances)/1
            print('\n Total attendance is {:0,.0f}'.format(sum(attendances)))
            print(' Average attendance is {:0,.2f}'.format(avg_attendance))
            print('',max_team,'has reported the maximum attendance as {:0,.0f}'.
 →format(max(attendances)))
        if sum(prices)>0:
            max_price_team = teams[prices.index(max(prices))]
            avg_price=sum(prices)/l
            print('\n',max_price_team,'has sold the maximum ticket price at ${:
→0,.2f}'.format(max(prices)))
            print(' Where as, the average price of the ticket was sold at ${:0,...
→2f}'.format(avg_price))
   else:
       print("Has there been any events?")
except ValueError:
       print("Bad Data")
```

```
Total attendance is 424,189

Average attendance is 15,710.70

Minnesota has reported the maximum attendance as 26,160

LA_Lakers has sold the maximum ticket price at $29.18

Where as, the average price of the ticket was sold at $18.57
```

[]: