

```
In [32]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import folium
```

```
In [33]: #import data to dataframe, number 1
df1=pd.read_csv('costcos-geocoded.csv')
df1.head()
```

Out[33]:

| | Address | City | State | Zip Code | Latitude | Longitude |
|---|---------------------------|------------|---------|------------|-----------|-------------|
| 0 | 1205 N. Memorial Parkway | Huntsville | Alabama | 35801-5930 | 34.743095 | -86.600955 |
| 1 | 3650 Galleria Circle | Hoover | Alabama | 35244-2346 | 33.377649 | -86.812420 |
| 2 | 8251 Eastchase Parkway | Montgomery | Alabama | 36117 | 32.363889 | -86.150884 |
| 3 | 5225 Commercial Boulevard | Juneau | Alaska | 99801-7210 | 58.359200 | -134.483000 |
| 4 | 330 West Dimond Blvd | Anchorage | Alaska | 99515-1950 | 61.143266 | -149.884217 |

```
In [34]: #import data to dataframe, number 2
df2=pd.read_csv('ppg2008.csv')
df2.head()
```

Out[34]:

| | Name | G | MIN | PTS | FGM | FGA | FGP | FTM | FTA | FTP | ... | 3PA | 3PP | ORB | DRB | TR |
|---|---------------|----|------|------|------|------|-------|-----|-----|-------|-----|-----|-------|-----|-----|----|
| 0 | Dwyane Wade | 79 | 38.6 | 30.2 | 10.8 | 22.0 | 0.491 | 7.5 | 9.8 | 0.765 | ... | 3.5 | 0.317 | 1.1 | 3.9 | 5 |
| 1 | LeBron James | 81 | 37.7 | 28.4 | 9.7 | 19.9 | 0.489 | 7.3 | 9.4 | 0.780 | ... | 4.7 | 0.344 | 1.3 | 6.3 | 7 |
| 2 | Kobe Bryant | 82 | 36.2 | 26.8 | 9.8 | 20.9 | 0.467 | 5.9 | 6.9 | 0.856 | ... | 4.1 | 0.351 | 1.1 | 4.1 | 5 |
| 3 | Dirk Nowitzki | 81 | 37.7 | 25.9 | 9.6 | 20.0 | 0.479 | 6.0 | 6.7 | 0.890 | ... | 2.1 | 0.359 | 1.1 | 7.3 | 8 |
| 4 | Danny Granger | 67 | 36.2 | 25.8 | 8.5 | 19.1 | 0.447 | 6.0 | 6.9 | 0.878 | ... | 6.7 | 0.404 | 0.7 | 4.4 | 5 |

5 rows × 21 columns



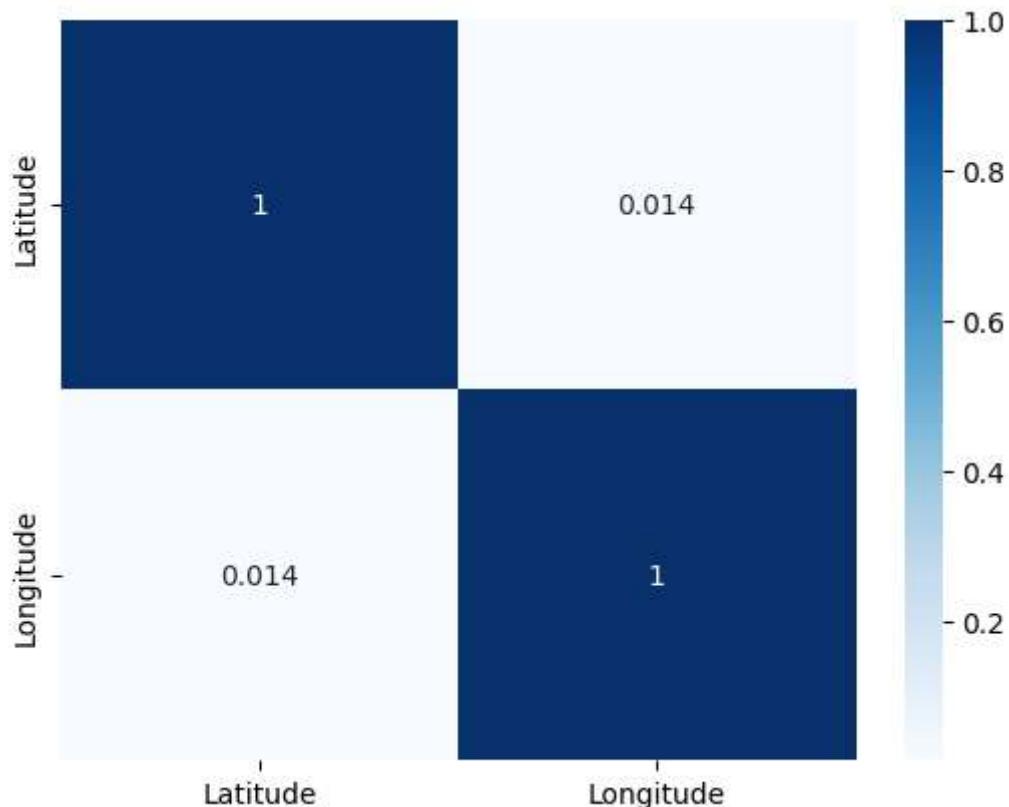
In [35]: *#heatmap of dataset1*

```
sns.heatmap(df1.corr(), annot = True, cmap='Blues')
```

C:\Users\brean\AppData\Local\Temp\ipykernel_22788\3220616026.py:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.

```
sns.heatmap(df1.corr(), annot = True, cmap='Blues')
```

Out[35]: <AxesSubplot: >



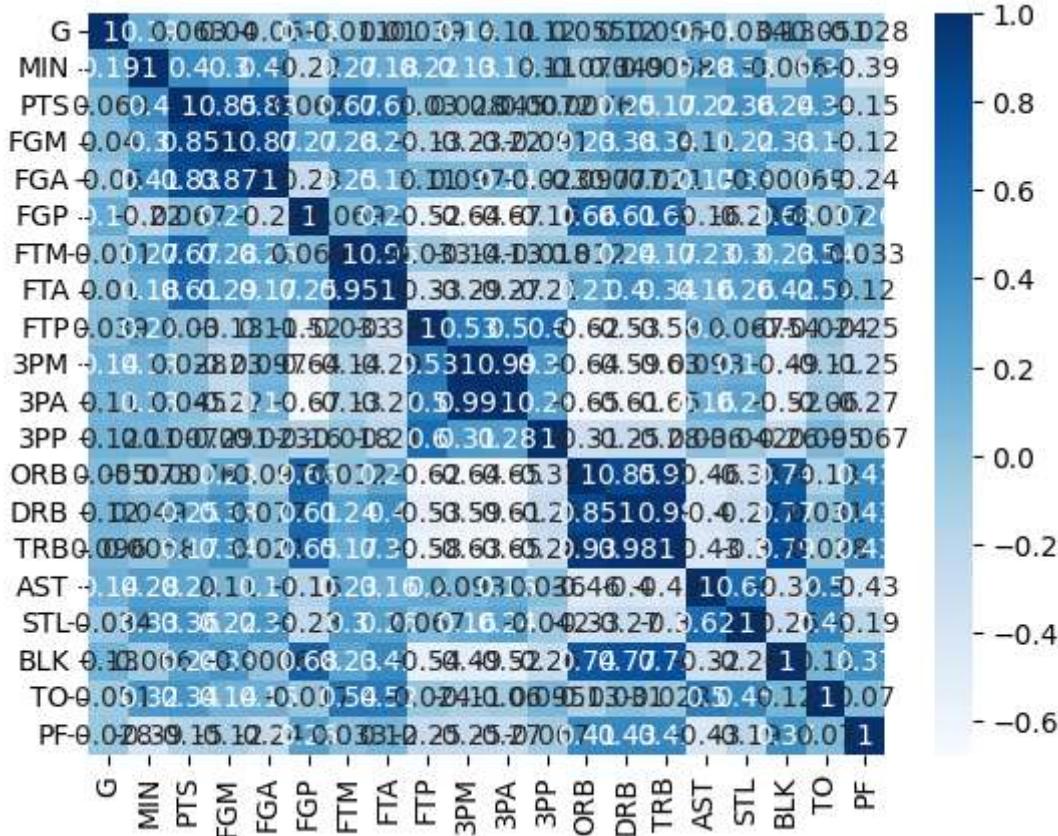
In [36]: `#heatmap of dataset2`

```
sns.heatmap(df2.corr(), annot = True, cmap='Blues')
```

C:\Users\brean\AppData\Local\Temp\ipykernel_22788\3347667493.py:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.

```
sns.heatmap(df2.corr(), annot = True, cmap='Blues')
```

Out[36]: <AxesSubplot: >



In [37]: `#getting the map`

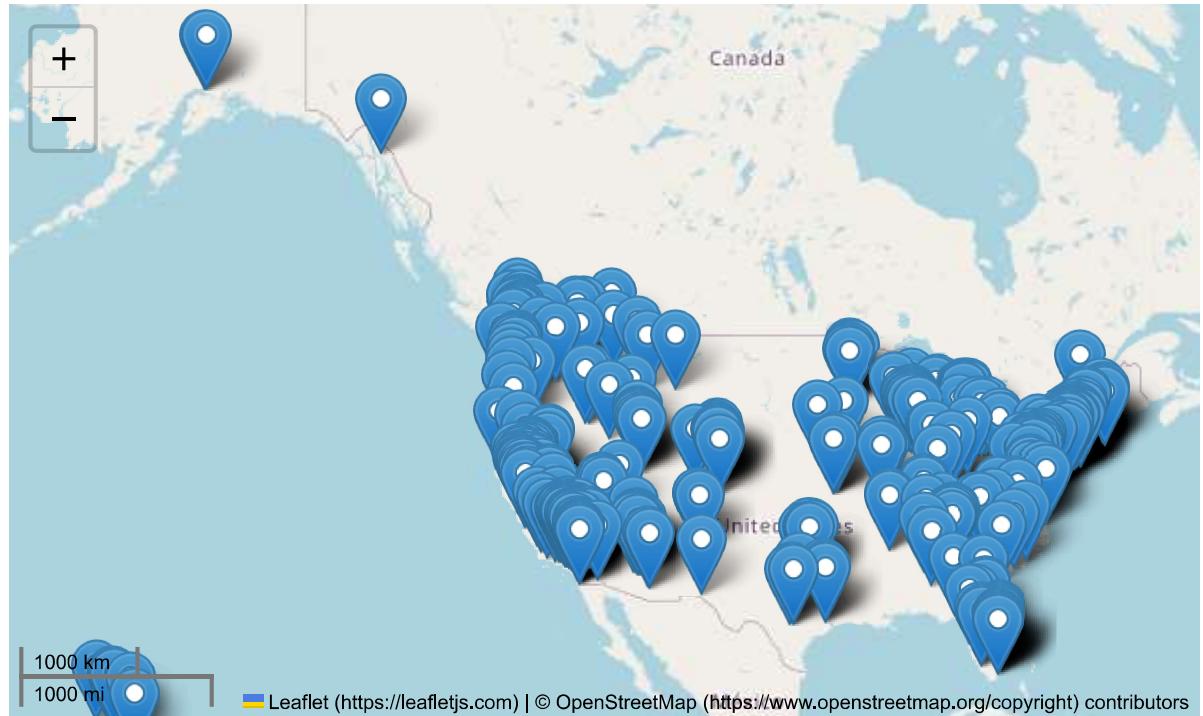
```
map = folium.Map(location=[df1.Latitude.mean(), df1.Longitude.mean()], zoom_start=1)
```

In [38]: `#mapping the data`

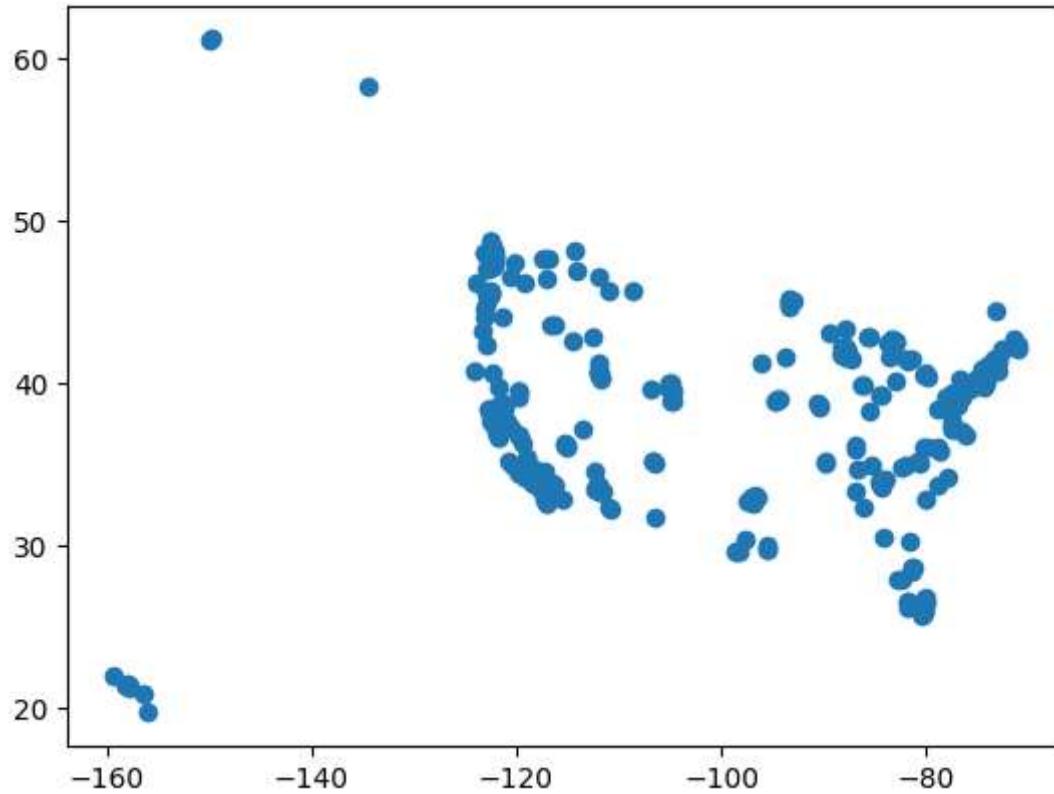
```
for index, location in df1.iterrows():
    folium.Marker([location["Latitude"], location["Longitude"]], popup=location["Team"])
```

In [39]: map

Out[39]:



In [40]: *#second way to graph this (thought couldn't get the map to show up)*
plt.scatter(x = df1.Longitude, y = df1.Latitude)
plt.show()



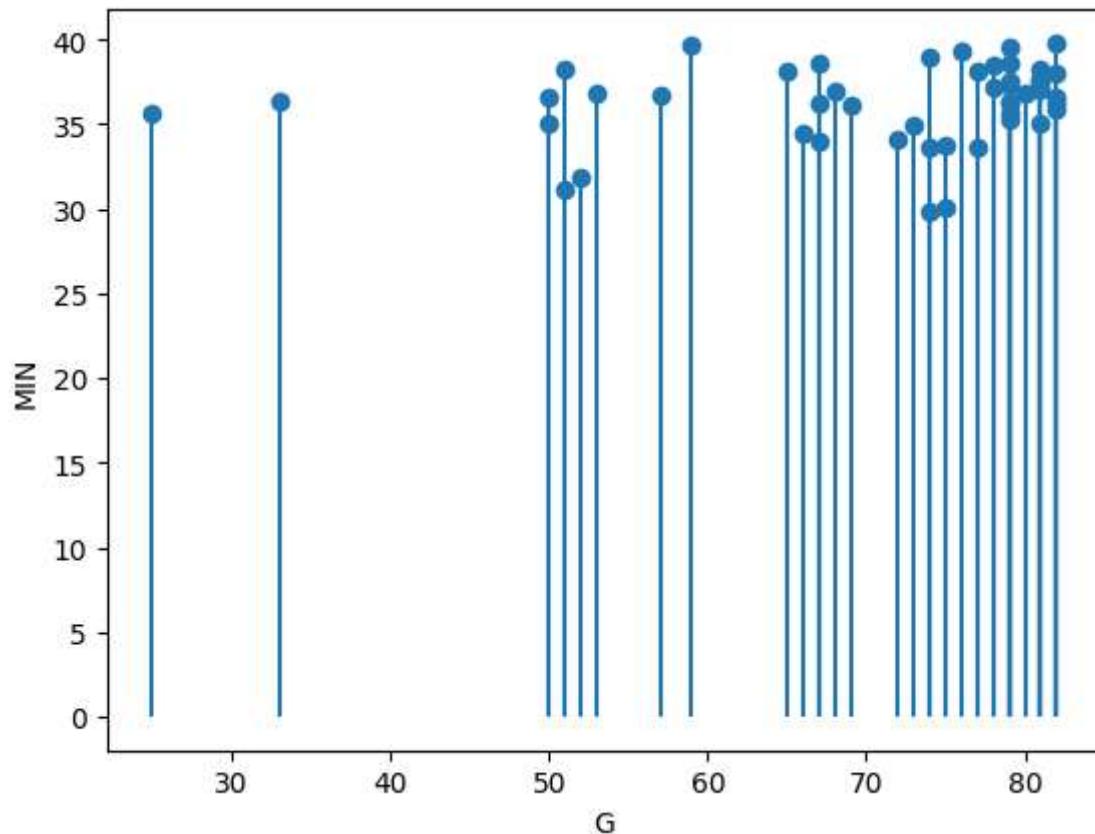
In [41]: #Lollipop chart

```
fig, axes = plt.subplots()
axes.stem(df2['G'], df2['MIN'],
          use_line_collection=True, basefmt=' ')
plt.xlabel('G')
plt.ylabel('MIN')
```

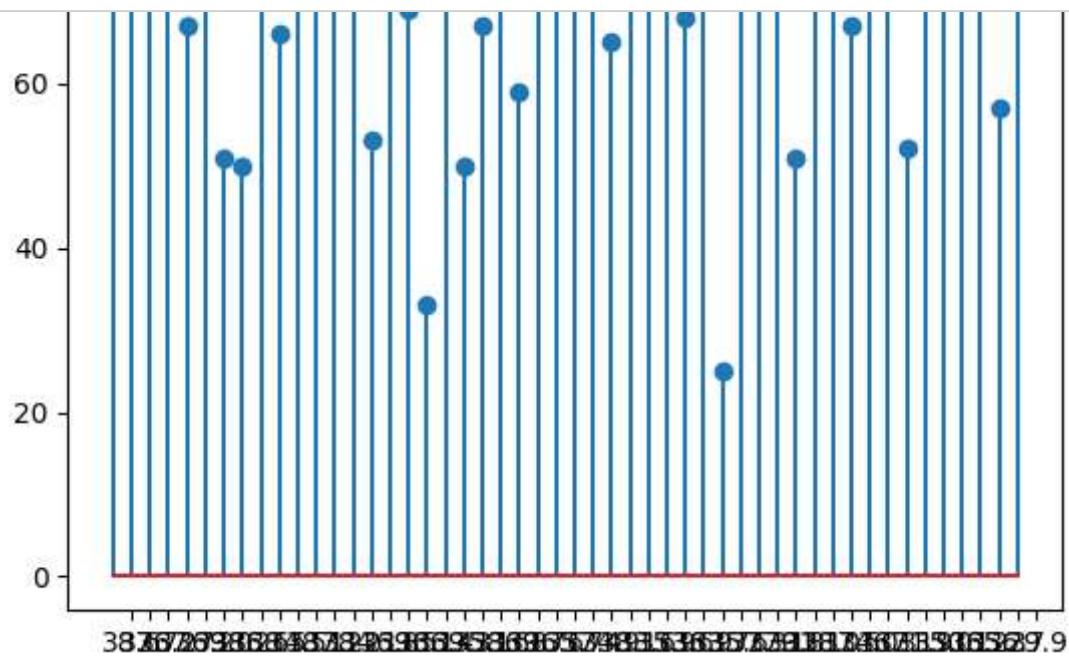
C:\Users\brean\AppData\Local\Temp\ipykernel_22788\1041189478.py:3: Matplotlib DeprecationWarning: The 'use_line_collection' parameter of stem() was deprecated in Matplotlib 3.6 and will be removed two minor releases later. If any parameter follows 'use_line_collection', they should be passed as keyword, not positionally.

```
axes.stem(df2['G'], df2['MIN'],
```

Out[41]: Text(0, 0.5, 'MIN')



```
In [43]: #Lollipop chart second way  
lolli_range=range(1,len(df2.index)+1)  
  
plt.stem(df2['G'])  
plt.xticks(lolli_range, df2['MIN'])
```



```
In [ ]:
```