Consider the <code>game_goalie_stats.csv</code> data file posted on Blackboard. This file contains goalie stats from different teams.

- 1. In **Python**, answer the following:
 - (a) (3 points) Using the pandas library, read the csv data file and create a data-frame called goalie_stats.

```
import pandas as pd

## Reading the csv file
goalie_stats = pd.read_csv('game_goalie_stats.csv')
```

(b) (3 points) Report the average and the median of the average time on ice of each goalie. What can you conclude about the distribution of the average time on ice?

```
## the average of the average timeOnIce
goalie_stats.groupby('player_id')['timeOnIce'].mean().mean()

## the median of the average timeOnIce
goalie_stats.groupby('player_id')['timeOnIce'].mean().median()

The mean is 3012.24 and the median is 3257.51. Because the median is greater than the mean, we conclude that the shape of the histogram is left-skewed.
```

(c) (3 points) Create a histogram of the average time on ice of each goalie. Does this histogram agree with your conclusions from part (b)?

```
## Histogram
goalie_stats.groupby('player_id')['timeOnIce'].mean().hist()
Yes, the shape of the histogram agrees with our conclusion from part (b).
```

- 2. In **R**, answer the following:
 - (a) (3 points) Using the read.csv function, read the csv data file and create a data-frame called goalie_stats.

```
## Reading csv file
goalie_stats = read.csv(file = 'game_goalie_stats.csv')
```

(b) (3 points) Report the number of games of each goalie.

(c) (3 points) Report the IQR of the number of games of each goalie.

Five number summary summary(player_games\$numb_of_games)
The IQR is 139.