IE 300 Project I: Data Analysis for Airline Delays

Section: AD#

Group Members: First Last, First Last, Fist Last

Project Description

This project is aimed to perform basis data analysis to aseess and predict airline delays based on historical flight data.

Part 1: Determine Fastest Airline

Exercise 1

(1) Read the dataset, ignoring any observations without a recorded departure or arrival time. Some times are recorded incorrectly resulting in incorrect flight time. For any flight time less than 230 minutes, delete the observations.

In [ ]:
```
# Importing the necessary packages/modules
import csv
import numpy as np
from matplotlib import pyplot as plt
```

In [ ]:
```
# Start coding here
```

(2) Calculate the number of observations in your dataset.

In [ ]:
```
# Put your comment here and code below
```

(3) Calculate the target flight time.

In [ ]:
```
# Put your comment here and code below
```

(4) Calculate the typical time of this route.

In [ ]:
```
# Put your comment here and code below
```

(5) Calculate the time added for each airline and determine which airline have the lowest time added.

In [ ]:
```
# Put your comment here and code below
```

(6) Output the results of your calculations

In [ ]:
```
# Print your results in the following format

# Number of Observations:
# Target Time:
# Typical Time:
# Airline: AA |Time Added:
# Airline: UA |Time Added:
# Airline: VX |Time Added:
# Airline: F9 |Time Added:
# Airline: NK |Time Added:
```

Exercise 2

create a bar graph for the time added of each airline.

In [ ]:
```
# Put your comment here and code below
```

Part 2: Modeling ad Predicting Flight Delays

Follow the above format for the rest exercises in part 2.

In [ ]:
```

```

In [ ]:
```

```

Conclusions

Draw any conclusions here if you may have.