Map Reduce Assignment Due Date: October 10, 2016 by 11:55 p.m.

The dataset you will be using is about on-time performance of US domestic flights (yes, the one from our class). Data may be downloaded from: <http://bit.ly/rita-transtats> (Also, check the book’s GitHub repository). Data is in the following format:

Flight Date, airline ID, flight#, origin and destination airport, departure time and delay in minutes, arrival time & delay in minutes, amount of time in the air, distance in miles

A sample record is shown below:

2014-04-01, 19805, 1, JFK, LAX, 0854, -6.00, 1217, 2.00, 355.00, 2475.00

You are required to write map reduce code to determine the following:

1. The maximum departure delay for each originating airport.
2. The average arrival delay by flight#.
3. The minimum arrival delay for all origin-destination airport combinations.

Note that you will have to write 3 separate mappers and reducers. You may use Java or Python. You will have to upload a single solutions file (Word or Text file) that contains the following:

1. Your mapper code for each exercise.
2. Your reducer code for each exercise.
3. The first 10 lines of your output for each exercise.