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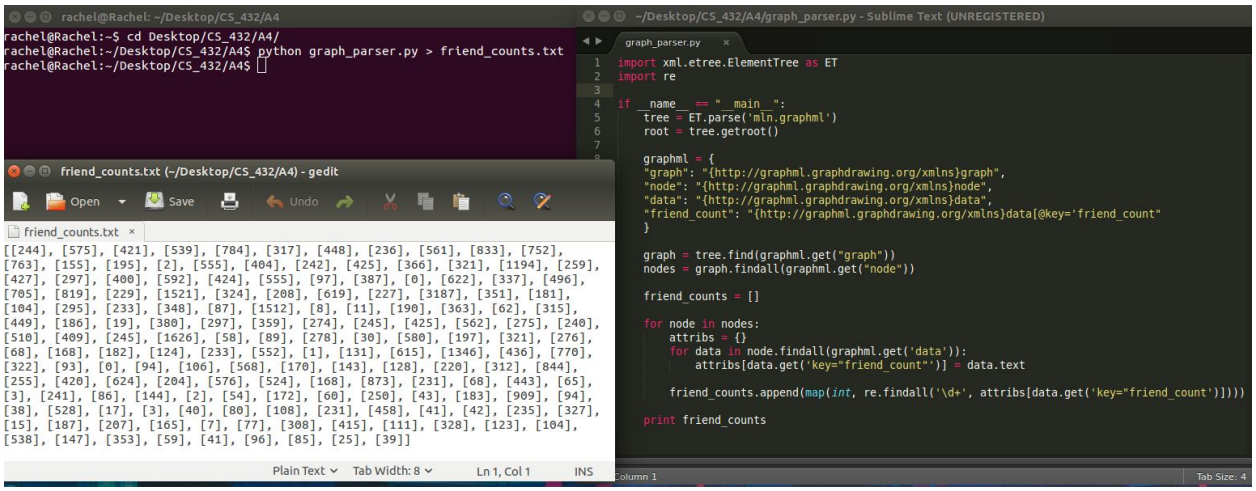
CS 432 ASSIGNMENT 4 REPORT

PART 1

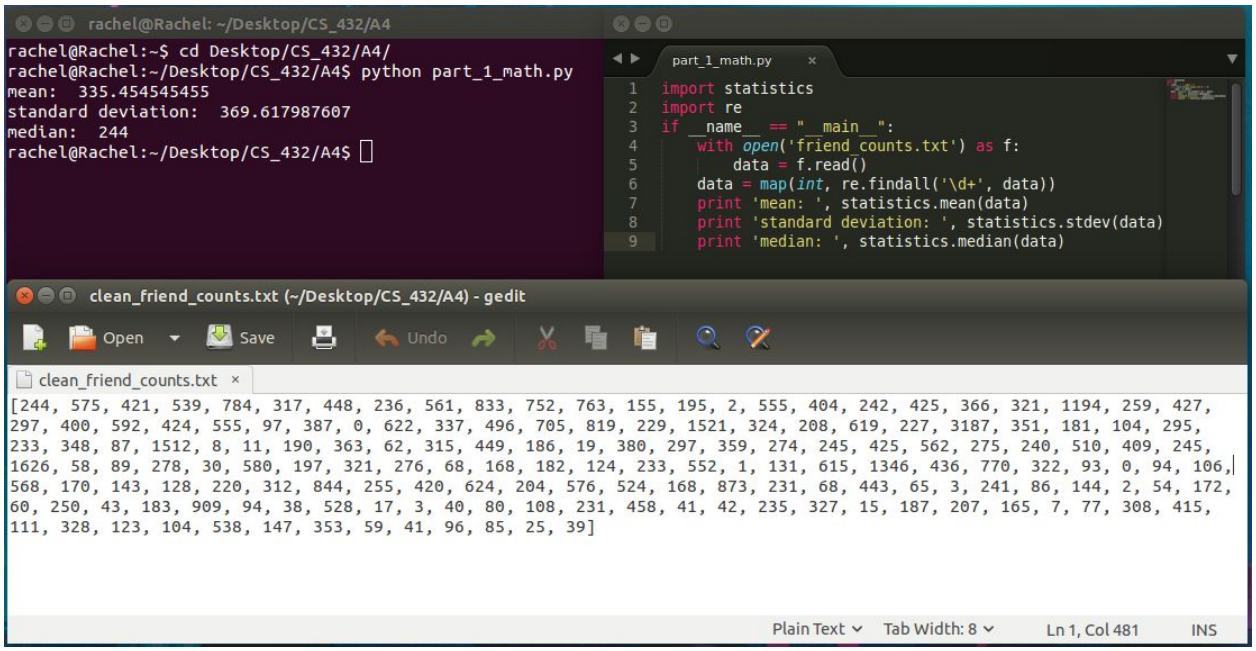
This program goes through the facebook friend graph emailed to the class and prints the friend counts. I used this and this for guidance (stackoverflow questions).

Libraries used: ElementTree (for iterating over graphml file)
re (for extracting only the ints from the friend count data)

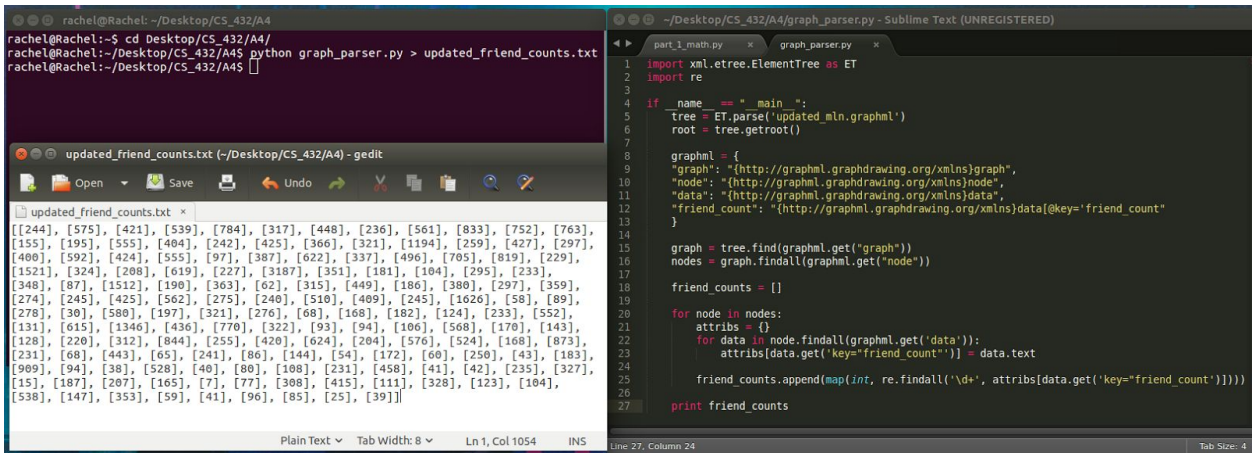
Demo screenshot, including the full program:

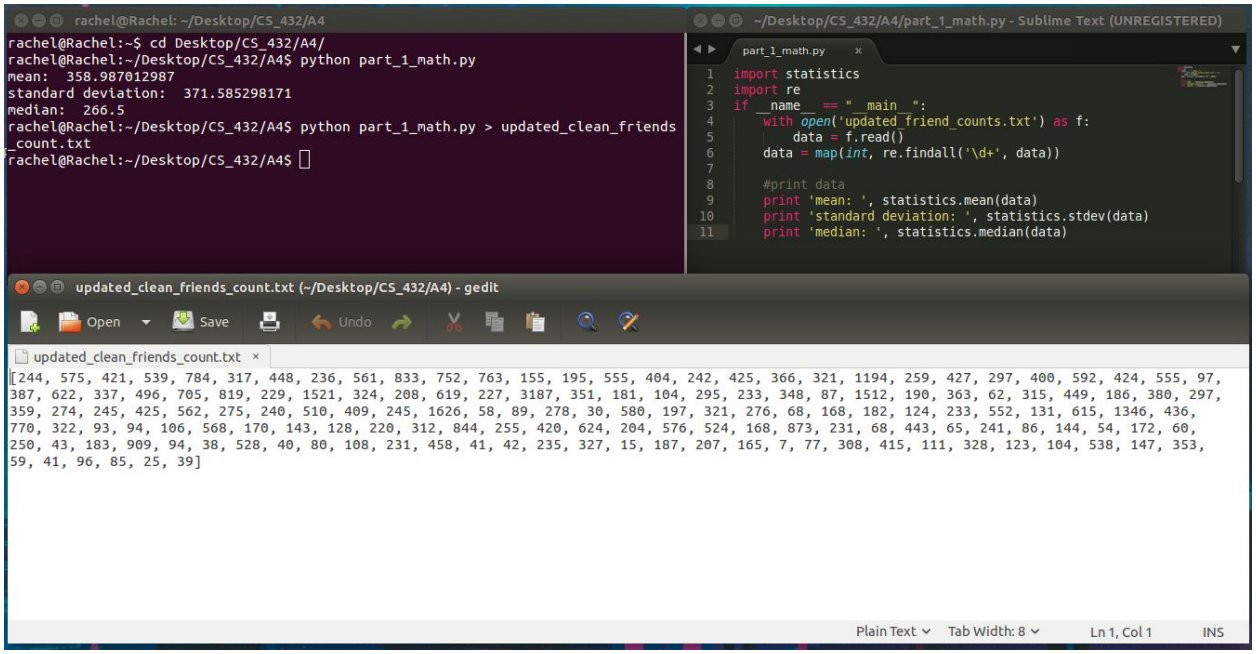


This next program computes the mean, standard deviation, and median of the number of friends that your friends have, using the statistics library. Before doing this, I used regex to get rid of the brackets:



Update: There were a total of 165 friends in the original list. After reading a group email about some of these friends only showing a mutual friend count, I went back and deleted those from the list, saving them in a "deleted from list" file (there were 11 people), then ran the programs on the updated friend list:

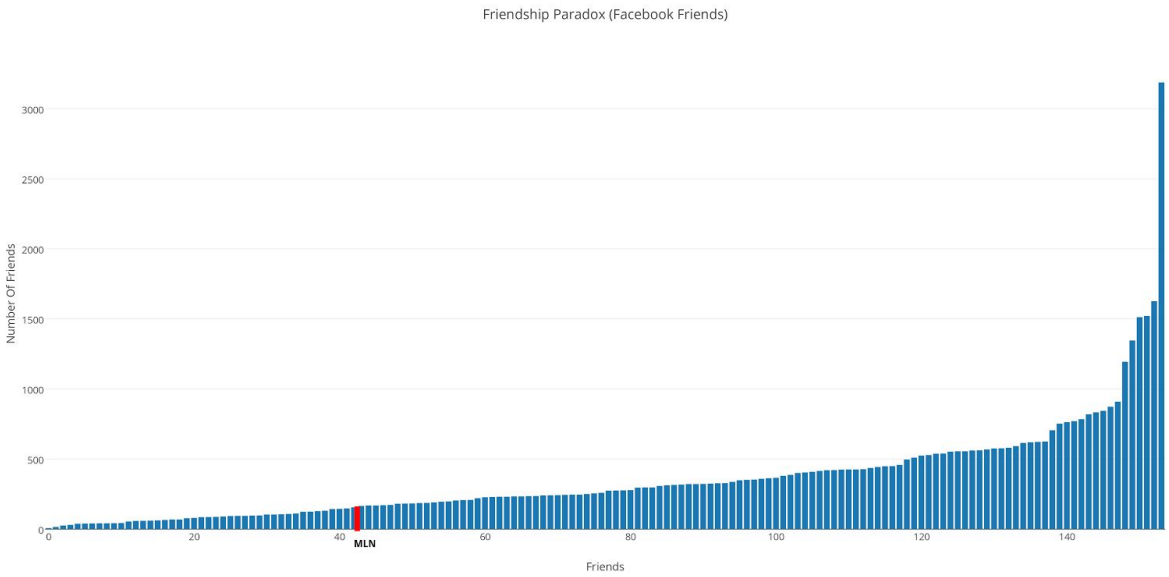




After using the updated friend list:

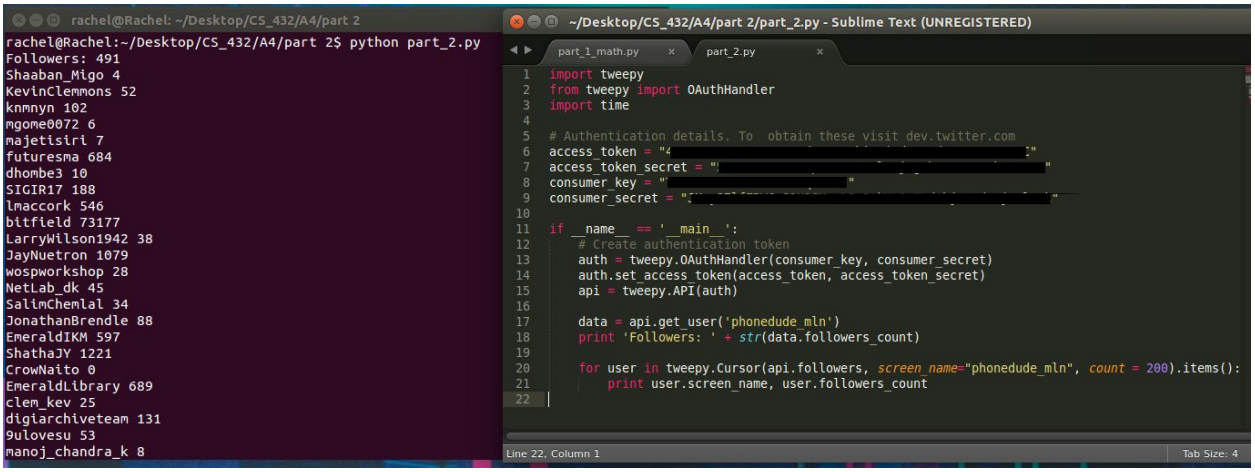
mean: 358.987012987
standard deviation: 371.585298171
median: 266.5

Using plot.ly to graph, MLN (165 friends) is in red:

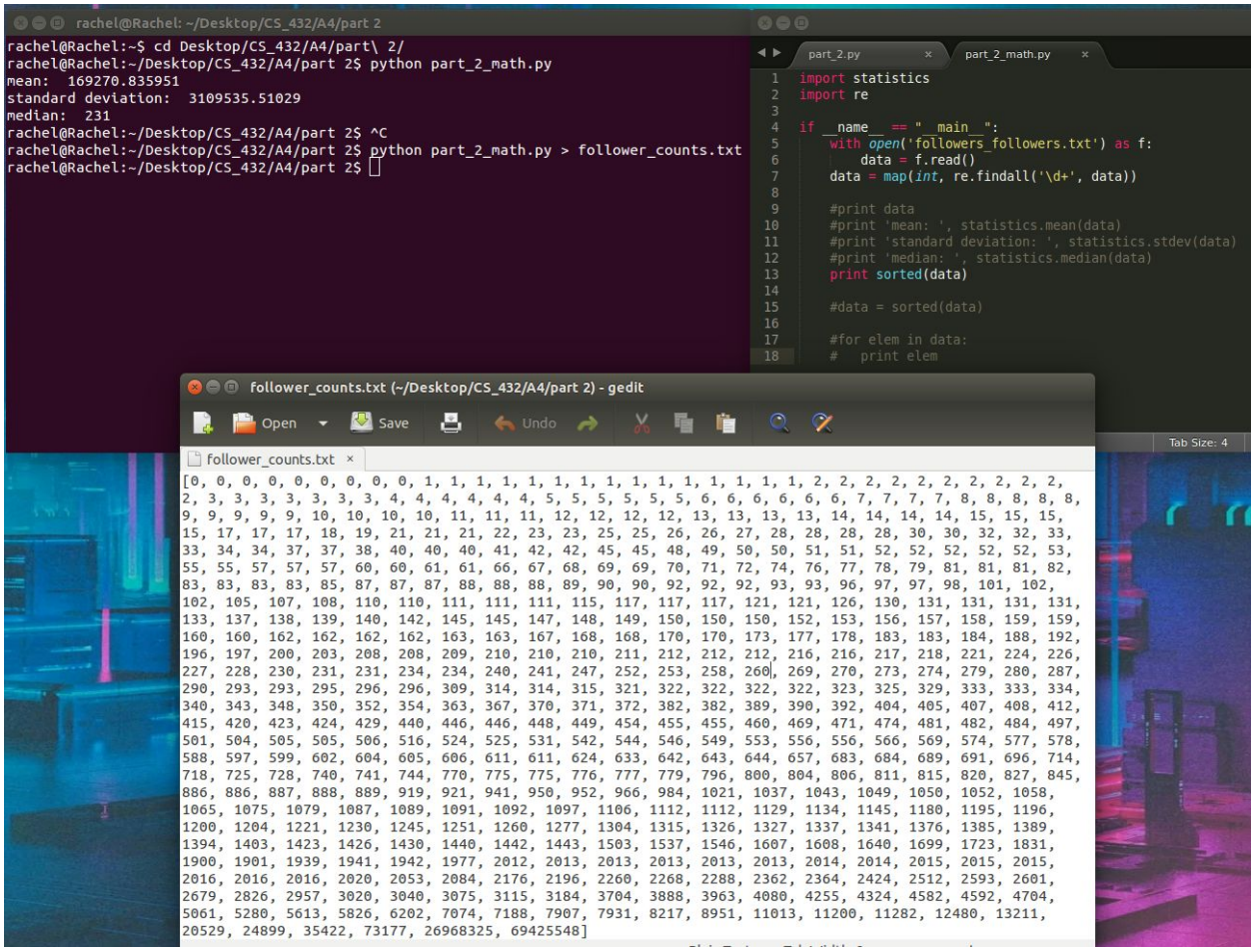


PART 2

Getting the followers of followers for phonedude_mln, using same tweepy library from assignment 2 with Twitter credentials (I just noticed it says “import time” in the screenshot, but I ended up not using it.):



Using same program as part 1 to calculate mean, standard deviation, and median:



mean: 169270.835951
standard deviation: 3109535.51029
median: 231

Using plot.ly to graph, MLN (491 followers) is in red: