Lab2 (20 points)

Important: We will demo in class or online. We will go around the room. Be prepared to demo at the start of class. If your code is NOT ready when we start class, you lose 5% of your grade. If you must 'fix' your code after we start grading, you will lose 5% of your grade. BE PREPARED.

The code submitted on github will be used only to verify that you did not copy from others, to compile and re-run your program, to make sure you were indeed demonstrating your own code, and to grade for documentation of your code.

In this program we will start with Lab1 (the datagram client/server). The new addition to the server is that we are going to introduce more than 1 server. A server will ONLY print out the message it receives if its port number matches the value associated with the "port" key in the message. Otherwise, the server MUST print a message saying it received a message not destined for it.

Your client will read in a number of servers from a file called config.file. The format of that file will be as follows:

IP Adddress	Port Number
127.0.0.1	1818
127.0.0.1	1919
127.0.0.1	2020
127.0.0.1	2121

The client will read in a the messages.txt file, one line at a time, and send each message to ALL servers in the config.file.

Submit well-documented and well indented code along with a README file explaining how to run the program, and a makefile. Submit it using GitHub.

The grading rubric is as follows:

- Program correctness and robustness (what happens if I give garbage input): 80%
- Coding style (comments, indentations, README, Makefile): 20%