Lab5 (100 points)

Important: We will demo in class or online. For in class demos, we will go around the room. Be prepared to demo at the start of class. The submitted code 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 Lab4. If TTL is 0, you will throw away the message. If you receive a message that is more than 2 squares away from you, using the Euclidean distance formula, your program will ignore it. If the message is for your node, the distance <=2, and TTL > 0, then the program will print it out. Otherwise, if the sender was within 2 squares, and it is not for you, you will decrement TTL, change the location, and then forward the message to your peers.

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%