Lab7 (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 Lab6. We are going to introduce the 2 new concepts. First, we will introduce the concept of movement. One of the commands your node may get (we will define this in the protocol in class), will be to move to a new square. When you get this message, you will update your location.

The second concept is a concept of optimization. If you get a message that is in range and NOT for you, after checking if the hopcount is positive, you will then check to the send-path. You will NOT forward the message to any node already in the send-path. This is to reduce the traffic on the network.

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%