

Lab4 (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 Lab3. The new addition is that in this lab, if you receive a message that is more than 2 squares away from you, your program will print the message and an error saying OUT OF RANGE (and all the data). ALL output must include: your location, the location of the machine sending you the message, and the message. Print out a message saying IN RANGE (and all the data) when the message is in range. Print a message saying NOT IN GRID (and all the data) if the drone receives something from outside the grid.

DISTANCE FORMULA must be Euclidean formula, and we use truncation on the result.

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, in a subdirectory called Lab1

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%