oYour name & the names of colleagues who you have collaborated with, and a description of what you discussed together.

My name: Saul Gomez, worked on it by myself.

o Provide a summary of the lab in your own words. Highlight what you thought were the important aspects of the lab. If these differ from how the lab manual presents things, make a note of that.

To summarize, this lab is a library for matrix operations, specifically a 3x3 matrix. I learned more about C by incorporating matrix addition, multiplication, inversion, and much more for functions. The trace, determinant, and inverse were topics discussed in AM10, so I am glad that they are being brought up again. Something that this lab helped me understand better is iterating through the use of lists in C. This library allows for varying levels of computation capabilities which to many, it can be helpful.

o Describe your approach to the lab. What went wrong as you worked through it? What worked well? What limitations are present in your code regarding matrix sizes, etc? How would you approach this lab differently if you were to do it again? Did you work with anyone else in the class? How did you work with them and what did you find helpful/unhelpful?

I found this lab to be quite tedious and a little challenging. What went wrong as I went through it was that one of my files was not compiling correctly because the dimensions of my matrix for the inverse function were off. It was intended for a 2 by 2 matrix and it was supposed to be for a 3x3 matrix. What worked well was organizing my sections of functions as well as test cases by using comments, that way I can stay organized. The limitation I think to my code is that it is intended for 3x3 matrixes. what I would do differently If I were to approach a lab like this again is to start earlier since it is quite tedious. I did not work with anyone else in the class.

o Give us some feedback. How many hours did you end up spending on it? What'd you like about it? What did you dislike? Was this a worthwhile lab? Do you have any suggestions for altering it to make it better? What were the hardest parts of it? Did the points distribution for the grading seem appropriate? Did the lab manual cover the material in enough detail to start you off? Did examples or discussions during class help you understand this lab or would more teaching on the concepts in this lab help?

I worked many hours on this, not sure how long but over the course of several days. I liked that once you got a few functions down, it was easier to complete the rest by staying in the flow. What I disliked about this lab was that It required many test cases and it was tedious to follow up with every single one of them. This was a worthwhile lab because it taught me more about C as well as linear algebra. The only suggestion I have is to add more resources for students to better understand how linux, git, MPLAB, and C all connect. The grade distribution seemed fair, perhaps some extra credit options would be nice. The lab manual provided enough for me to begin and end. I think that

more teaching on the concepts in this lab would definitely help me understand it better.