Homework 7: Instructions

When you're ready to submit your solution, go to the assignments list.

In this assignment, you will be making use of your newfound knowledge of orthogonalization (often known as *Gram-Schmidt* orthogonalization). In addition, you'll write the ever elusive, highly sought after, `QR_solve` method. Congratulations on making it this far! This is your last assignment! Wasn't linear algebra... straightforward?

You can do this week's lab before watching the lecture videos and before doing this homework.

To complete this assignment, please carefully follow these instructions:

1. Download this ZIP file
2. Unzip the ZIP file, and copy all its files into your `matrix` directory.
3. Verify that all the files from the ZIP file (including `hw7.py` and `hw7.pdf` and `submit_hw7.py` and `orthogonalization.py` and `orthonormalization.py` and `QR.py`) are now directly in the `matrix` directory.
4. Detailed instructions are in the file `hw7.pdf`.
5. You will write your answers to two of the problems in `orthonormalization.py` rather than in `hw7.py` since the module `QR` must import your procedures from `orthonormalization`. (Yes, we know module names should be lower case.)
6. Some of the problems/tasks are *ungraded*. You don't submit solutions to these.
7. For each graded problem/task,
   - test out your solution in the Python REPL;
   - copy your solution into the stencil file `hw7.py`;
   - submit your solution by running (from a console, *not* from the Python REPL) the command `python3 submit_hw7.py` to submit. You will need a one-time password to submit this assignment. It's located on this page.

You can use the submit command to submit as many problems as you like at one time.

Have fun!