

## Homework 3: Instructions

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When you're ready to submit your solution, go to the [assignments list](#).

In this assignment, you will be exploring the world of matrices. You'll also be implementing the multiple definitions of matrix-vector multiplication and matrix-matrix multiplication in python (not for future use, just to reinforce these definitions).

For some of these problems, you will need to use the `Mat` class that you will be implementing (in the `mat` assignment) and the `Vec` class you previously implemented. The stencil `hw3.py` already imports these classes. You will also need to import the `matutil` module for some of the problems. This module is provided with your `mat` assignment. You will have to add the `import` statement to the stencil `hw3.py`.

Q: What do mathematicians sleep on? A: Matrices.

And now, the generic instructions....

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 `hw3.py` and `hw3.pdf` and `submit_hw3.py` and some others) are now directly in the `matrix` directory.
4. Detailed instructions are in the file `hw3.pdf`.
5. Some of the problems/tasks are *ungraded*. You don't submit solutions to these.
6. For each graded problem/task,
  - test out your solution in the Python REPL;
  - copy your solution into the stencil file `hw3.py`;
  - submit your solution by running (from a console, *not* from the Python REPL) the command `python3 submit_hw3.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!

