

Homework 4: Instructions

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

In this assignment, you will be studying the concept of span, linear dependence, coordinate representation, and basis. The Exchange Lemma is one use of these concepts.

You will use the module `solver` in this assignment. We have included a compiled version of this module, `solver.pyc` in the ZIP file. This version works with Python 3.3.x. Versions of this file that work with Python 3.1.x and Python 3.2.x have been provided at resources.codingthematrix.com

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 `hw4.py` and `hw4.pdf` and `submit_hw4.py` and `solver.pyc`) are now directly in the `matrix` directory.
4. If you are using Python 3.3.x, skip this step. If you are using Python 3.1 or Python 3.2, go to resources.codingthematrix.com and download a version of `solver.pyc` built for your Python version:
 1. [for Python 3.1](#),
 2. [for Python 3.2](#)Move the downloaded version of `solver.pyc` into your `matrix` directory, replacing the version that was included in the ZIP.
5. Detailed instructions for the assignment are in the file `hw4.pdf`.
6. For each graded problem/task,
 - test out your solution in the Python REPL;
 - copy your solution into the stencil file `hw4.py`;
 - submit your solution by running (from a console, *not* from the Python REPL) the command `python3 submit_hw4.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!

