

The Field problems: Instructions

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In this assignment, you will write a few loops that all have the same form, then optionally do an ungraded problem that builds on those loops, then do some simple problems on two fields that you might not be familiar with: the field of complex numbers and the field $\text{GF}(2)$.

To complete this assignment, please carefully follow the following instructions:

1. Download the detailed instructions for this assignment, [The_Field_problems.pdf](#)
2. Download the stencil, [The_Field_problems.py](#), for this assignment, and move it into your `matrix` folder.
3. You do not need to submit anything marked *ungraded*.
4. Support code and data resources, such as [plotting.py](#), [image.py](#), [png.py](#), [GF2.py](#), and [img01.png](#) can be found at the [Coding the Matrix Resources page](#). Please do not delete these resources, as they may be used in the future.
5. For each problem/task,
 1. Test out your solution in the Python REPL;
 2. Copy your solution into the stencil file `The_Field_problems.py`;
 3. Submit your solution by opening a console window, navigating using `cd` to the `matrix` folder, and entering the command `python3 coursera_submit The_Field_problems.py`. The script will ask for your username and password. They are located [on the assignments page](#).

You can use the submit command to submit solutions for as many tasks as you like at one time.

Have fun!

