Integer Factoring Lab: Instructions

Help Center

In this lab, we use linear algebra to help factor gigantic numbers. Be careful with this lab: prime numbers are a bit... odd.

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

1. Download the detailed instructions for this assignment, factoring_lab.pdf
2. Download the stencil, `factoring_lab.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 can be found at the Coding the Matrix Resources page. Here, you will find gaussian_examples.py, cracking_rand.py, echelon.py, and factoring_support.py.
5. For each problem/task,
    1. Test out your solution in the Python REPL;
    2. Copy your solution into the stencil file `factoring_lab.py`;
    3. Submit your solution by opening a console window, navigating using `cd` to the `matrix` folder, and entering the command `python3 coursera_submit factoring_lab.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!