

# The Inner Product problems: Instructions

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In this assignment, you will be practicing finding the vector in  $\text{Span}\{a\}$  closest to a vector  $b$ , and projecting along and orthogonal to a vector, and computing a vector norm.

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

1. Download the detailed instructions for this assignment, [The\\_Inner\\_Product\\_problems.pdf](#)
2. Download the stencil, [The\\_Inner\\_Product\\_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 can be found at the [Coding the Matrix Resources page](#). Here, you will find [orthogonalization.py](#).
5. For each problem/task,
  1. Test out your solution in the Python REPL;
  2. Copy your solution into the stencil file `The_Inner_Product_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_Inner_Product_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!

