Other Final Ideas

Points: 20 points

Problem Background

Problem 202: Laser Beams

Program Criteria

Write a program that does the following:

- Calculates the number of ways a laser can enter and exit the same corner of the triangle, and bounce `N` times within the triangle, where `N` is a variable that can be set by the user.

Deliverables

Place the following in a folder named `FinalProject` in your repository:

- A Python file `F7_Laser_Name.py` that satisfies the program criteria.
- A PDF file `F7_Laser_Name.pdf` that describes how your program works. This should be a description of how you went about solving this problem. You should go into some detail about your solution method, but I don't want to see something about every `if` statement and `for` loop. As an example of the type of description I'm looking for, see the file `Goldbach_explanation.doc` in the `Final Problem` folder of my repo.
- Explain the mathematics done to create the code. As I understand it a lot of math was done before hand in order to simplify the problem and turn it into something that can be coded. Explain this math.
- Give a good attempt at proving that this math is correct. Since the program depends on this math being correct, we really need to be assured of that fact to believe the code.