Contribution Guidelines

- 1. Coding Guidelines and Standards
 - a. Code Organization:
 - Meaningful names for classes and functions.
 - b. Naming Conventions:
 - PascalCase
 - Methods.
 - Classes
 - camelCase
 - Variables.
 - Methods: Verbs
 - Ex: GetLocation()
 - Variables: Nouns
 - Ex: paymentLocation
 - Unit test classes:
 - Name the file, "test_" followed by the name of the class you are testing.
 - Ex: test_Map.py
 - c. Commenting:
 - Keep comments up-to-date with the code.
 - Use comments to explain complex code or to provide context.
 - One line comments: Above or at the end of the line of code you are commenting about.
 - Line Length: 90 characters maximum to ensure readability.
 - Docstrings:
 - Use docstrings to document classes and functions.
 - Classes: Document its purpose above the class declaration.
 Use 5 sentences maximum.
 - o Functions:
 - Document its purpose above the function declaration.
 - If applicable:
 - Description of value(s) returned and its type.
 - Description of parameter(s) and its type.
 - Use triple double quotes (""") for multi-line docstrings.
 - d. Whitespace:
 - Single space after:
 - Commas.
 - Colons.
 - Semicolons.

- Single space before and after:
 - Binary operators.
- \blacksquare 1 tab = 4 spaces.
- e. Imports:
 - Import modules in the following order:
 - Standard library modules.
 - Third-party library modules.
 - Your own modules.
- 2. Testing:
 - a. If no unit tests exist for your code yet, write unit tests for your code using the framework <u>pytest</u>.
- 3. GitHub Commit Documentation
 - a. Title: Big updates made to the code.
 - Separate each item with periods.
 - Ex: GetLocation() method, created but not finished. Bug found in Location.py, issue generating the location in desired output format.
 - b. Description: Additional information about updates made.
 - Separate each item with dashed bullet point. Sub points can be made using 4 spaces before the dash.
 - Ex:
 - \circ Bug resolves if input is 0.
 - List unit tests that were not passed if applicable.
 - Ex:
 - - Unit test for GetLocation() method not passed.
 - Error: TypeError:
 ReadWrite.CheckCommandLine() takes 1
 positional argument but 2 were given.
 - List sources used at the end.
 - Ex:
 - o https://www.geeksforgeeks.org/power-set/