**BCPR301 – Advanced Programming Assessment#1: Interpreter**

**Name Sean Ryan**

* **Interactive front-end**

Worked with Jonathan Holdaway (doctest tests against this feature)

Quality Increases functionality by providing another way of interaction with the program

* **Supports piping and scripting**

Worked with Jonathan Holdaway (doctest tests against this feature)

Quality Increases flexibility by allowing images to be drawn through automatic scripts

Clever by using regex and aliases for flexible syntax

* **Parsed from configurable lookup table**

Worked with Jonathan Holdaway (doctest tests against this feature)

Quality Increases flexibility by allowing for commands to be added easily and dynamically

Clever by using regex for aliases for more flexibility

* **Uses regular expressions in parser**

Worked with Jonathan Holdaway (doctest tests against this feature) / Thomas Baines (tested by unittest)

Quality Increases flexibility by allowing for aliases to be used in scripts

* **Uses generic parsing engine**

Worked with Jonathan Holdaway (doctest tests against this feature) / Thomas Baines (tested by unittest)

Quality Increases functionality by providing an interface that any drawer and input can use for communication

* **Outputs with turtle.py**

Worked with Jonathan Holdaway (doctest tests against this feature) / Thomas Baines (tested by unittest)

Quality Increases functionality by using an alternative form of drawing to the screen

* **Provide doctests**

Worked with Jonathan Holdaway

Quality Improves robustness by testing features and functions for if they are valid and working

* **Provide unittests**

Worked with Thomas Baines

Quality Improves robustness by testing if feature and functions are valid and working as intended

Clever by dynamically loading tests from a Test Case class into a test suite to avoid manual input

* **Breadth of test coverage**

Worked with Jonathan Holdaway (doctest) / Thomas Baines (unittest)

Quality Improves robustness by keeping the program running even when errors are found. Most functions have error handling to alert the user of invalid input and also ensures data gets handled correctly.

* **Amount of error trapping & handling**

Worked with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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