Name _____

CPADS Lab #8
CPADS and the Quest to Test the Logic in the Holy Grail
Part 1: We Found a Witch – May We Burn Her?

You are now going to get the opportunity to be a test engineer and "break" some code. You will be testing your own program. The battery of test cases to run is located under Assignment 3 on the CPADS website. You will run those test cases against your program, logging which ones pass and which ones fail.

The collection of test cases has been assembled to be relatively exhaustive. If your program passes all of the test cases, it has an excellent chance of being complete. Here are your tasks for this exercise:

1) Download the test case PDF file.
2) Download the test case driver Python file: **MontyPythonWitchScene_testing.py**.
3) Place that Python file with your Assignment 3 Python Project.
4) Open your Assignment 3 project in **Pycharm** and then open the Python test file **MontyPythonWitchScene_testing.py**.
5) **TODO 1:** Copy all of the code from your program to be tested, except for the call to **main(),** in the location specified in the Python test file **MontyPythonWitchScene_testing.py**.
6) **TODO 2:** Create a function called **isSheReallyAWitch()** by placing the supplied function declaration above the TODO 9 code.
7) **TODO 3:** Place the supplied call to **isSheReallyAWitch()** at the new end of **main()**, before the **isSheReallyAWitch()** function definition. Make sure to delete the old prompt for *"Press Enter to Exit"* that now follows **isSheReallyAWitch()**
8) **TODO 4:** You can now choose to run your **main()** program or the test your program. To run your **main()** program, enter "*run*" at the first prompt. To test your program, enter anything else, which will run **testMain()**. Run the test program, execute all of the test cases, and record the results on the test case document: '**P**' for **PASS**, if the test case passes, '**F**' for **FAIL** if the test case fails, and '**X**' if the function under test has not been implemented, does not compile, or crashes.
9) You will likely encounter failed test cases while executing the test procedure. You can fix the program bugs in the **MontyPythonWitchScene_testing.py** file as you find them, but make sure to indicate which failures you fixed on your test procedure.
10) You have until the beginning of the next class period to complete the test cases, debug and fix your code, and verify your bug fixes using the test cases. After you are done, upload your tested, debugged, and fixed **MontyPythonWitchScene_testing.py** file to Marmoset under the **assign3test** project. Turn in your completed test case document to your professor at the beginning of the next class.