

# Testing

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# Exercise 1: Definitions

What's the difference between white and black box testing?

## Exercise 2: Example Test Case

```
# Test case 1: Marc attacks Sora
# Inputs: 1, 0, 4
# Output: 6/36
# Reason: Ensure generalized function can still perform original job

result = char_one_shot_rate(1, 0, 4)
expected = "6/36"

if result != expected:
    print("Error in test case 1")
    print("Expected: " + str(expected))
    print("Actual:   " + str(result))
```

## Exercise 3: Breakpoints

Click on the numbers to the side of a Python file in Pycharm.

The program will stop at each breakpoint when in debug mode.

It will also show the values of each variable.

## Exercise 4: Debugging

Fix the example, [lab7.py](#), from the github repository.

Create some test cases for it. Be sure you're able to explain why you've created them.

Notes: If you need comments to explain what the code does, consider changing variable names to make the code self-explanatory.

Docstring examples are in Lab 4 and 2 slides.