Testing

- Important step: writing end-to-end tests

- Should write tests *before* starting work on a new feature

  - Tests will fail initially, and then after the work is finished, all tests should pass

- Concept known as test-driven development ("TDD")

Testing - basic implementation

```python
import interpreter

# dictionary from input to expected output
tests = {
    "1": 1,
    "(1)": 1,
    ... # many more tests
}

for i, (test, expected) in enumerate(tests.items()):
    result = interpreter.interpret(test, verbose=verbose)
    if result != expected:
        print("Failed test {}: expected {}, got {} on input {}".format(
            i, expected, result, test
        ))
```