

# Conducting tests

- Start with **unit testing**  
单元测试
  - Check that each module (e.g. function) works correctly
- Move to **integration testing**  
集合测试
  - Check that system as whole works correctly
- Cycle between these phases  
在这几项之间进行循环

# Test Drivers and Stubs

测试驱动和残端

- **Drivers** are code that
  - Set up environment needed to run code
  - Invoke code on predefined sequence of inputs
  - Save results, and
  - Report
- Drivers simulate parts of program that use unit being tested  
驱动模拟使用单元正在测试的部分程序。
- **Stubs** simulate parts of program used by unit being tested  
存根模拟了通过单元正在测试使用的部分程序
  - Allow you to test units that depend on software not yet written  
允许你测试取决于还没有书写的软件单元

# Good testing practice

好的测试行为

- Start with unit testing

从单元测试开始

- Move to integration testing

然后移动到集合测试

- After code is corrected, be sure to do

在代码改正后，确保进行

## **regression testing:**

回归测试

- Check that program still passes all the tests it used to pass, i.e., that your code fix hasn't broken something that used to work

测试程序是否依然通过所有有的测试

例如，你的代码修正没有打破一些原先正常工作的地方。