J-Unit Tests

Remember:
1. Write a new test
2. Run all tests (FAIL)
3. Write that passes all tests
4. Run all tests (PASS)
5. Refactor code
6. Run all tests (PASS)

How do we write these tests in step 1?
How do we automate our testing?

J-Unit
1. Open source framework for
   ○ Writing tests
   ○ Automatically running tests
2. "X"-Unit test family
   ○ J-Unit for Java
   ○ C-Unit for C
3. Easy to use and compatible
   ○ Usable with most IDE's

Assertion Tests
- Value checker
- Checks the "produced value" from the new code vs. the "expected value" that was manually provided by developer
- Passes if values match and otherwise Fails

@Test decorator above test functions
assertEquals(expected, calculated, floating point tolerance)
assertNull(calculated)
assertNotNull (calculated)

@Test(timeout = 1000) - time out in milliseconds (1/1000)