

Why Are Tests Important?

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- Philosophy: Everybody can change someone else's code as long as the tests still run
- Regression testing: test whether functionality that was working before a change is still working after the change

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- A unit test framework for Java
- Provides automatic test runs
- Provides automatic result checks
- Lots of extensions are available
- Make sure that /usr/share/java/junit.jar is in your CLASSPATH

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- 1. Create a subclass of TestCase
- 2. Write a test method (name should start with test)

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3. Run the test

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1. Create a subclass of TestCase import junit.framework.TestCase; public class MyCalendarTest extends TestCase { ... }







- 2. Add an instance variable for each part of the fixture
- 3. Override ${\tt setUp}$ () to initialize the variables

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4. Override tearDown() to release any permanent resources you allocated in setUp

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Execution Order

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- setUp() will be executed before and tearDown() will be executed after each test method-invocation
- The ordering of test-method invocations is not defined
- Test methods must be written to be independent of one another

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import junit.framework.TestCase; public class MyCalendarTest extends TestCase { protected void setUp() { myCalendar_ = new MyCalendar(); } protected void tearDown() { } MyCalendar myCalendar_; } The University of Weiketo COMP241 Lecture 4 Side 20





