COMP 110/L Lecture 16

Kyle Dewey

Outline

- Looping over multiple arrays
- Testing with arrays

Looping Over Multiple Arrays

Same index variable can be used on multiple arrays

Example: LoopTwo.java

Creating Arrays from Arrays

Similar pattern arises if trying to make an array from an array

Examples:

CopyArray.java CopyFirstThree.java

Testing with Arrays

JUnit Recap

You've been using JUnit's assertEquals for awhile...

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import static org.junit.Assert.assertEquals;

-Have to have this line to make assertEquals available...

JUnit Recap

You've been using JUnit's assertEquals for awhile...

```
import static org.junit.Assert.assertEquals;
@Test
public void testSomething() {
   assertEquals(2, MyMethod.myMethod(1));
}
```

JUnit with Arrays

Can use assertArrayEquals to look at array contents

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import static org.junit.Assert.assertArrayEquals;

-We have to import assertArrayEquals...

JUnit with Arrays

Can use assertArrayEquals to look at array contents

^{-...}which can subsequently be used with an array

⁻This snippet assumes that MyMethod.myMethod returns an array of ints (int[])

Example

- ParseStrings.java
- ParseStringsTest.java

Writing Tests for Loops over Arrays

- Which tests are interesting tends to be problem-specific
- Often of value: arrays of length 0, 1, and 2