COMP 110/L Lecture 14

Kyle Dewey

Outline

- Testing with arrays

- More examples with loops and arrays

Testing with Arrays

JUnit Recap

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

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

```
import static org.junit.Assert.assertEquals;
```

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

JUnit Recap

```
import static org.junit.Assert.assertEquals;


@Test
public void testSomething() {
  assertEquals(MyMethod.myMethod(1), 2);
}
```

–Followed by tests later on that use assertEquals

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

```
import static org.junit.Assert.assertArrayEquals;


@Test
public void testSomething() {
   assertArrayEquals(MyMethod.myMethod(1),
                       new int[]{1, 2, 3});
}
```

–...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

More Loop and Array Examples

- `PrintArray.java`
- `CopyFirst3.java`
- `CopyAll.java`
- `AddArrays.java`
- `AddArraysTest.java`