

COMP 110/L Lecture 16

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Slides adapted from Dr. 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

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

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

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