

Brief Review of 1323

Plan for Today

- Review 1323 by solving some problems
 - If you are not comfortable with the material in this review, consider taking 1323 instead
- The best way to do this is to write your own code while I talk about code and write it
 - Lab tomorrow will ensure everyone has an IDE running (eclipse, idea, netbeans, ...)
- Remember there are lots of ways to do these things

Representation of Primitive Data

Top Hat

Input and Output

- Prompt a user for their favorite vacation place
- Read in the response from the keyboard
- Print out the response

Control Statements

- Write a few lines of code that sums the elements of an int array

Control Statements

Write a few lines of code that reverses an array of integers

Methods

Take the code for reversing an array and make it a method:

- **Signature #1:**

```
public static void reverse(int[] array)
```

- **Signature #2:**

```
public static int[] reverse(int[] array)
```

Representation of Data II

Top Hat

Representation of Data

- Create a String that contains “ABC123” three different ways
- Take the String above, and make it contain just “ABC”

Insertion Sort

- First implement:

```
public static int[] insert(int val, int[] list)
```

- Then implement:

```
public static int[] insertionSort(int[] list)
```

- Then implement a test in main()

UML

- Unified modeling language
- Umlet
 - <http://www.umlet.com/changes.htm>

Objects

Implement the class below

Book
<code>-title: String</code>
<code>-author: String</code>
<code>-isbn: String</code>
<code>+Book(myAuthor: String, myTitle: String, myISBN: String)</code>
<code>+getTitle(): String</code>
<code>+getAuthor(): String</code>
<code>+getISBN(): String</code>

Next Classes...

- Homework: complete Catme survey no later than Friday evening (you should have received email)
- Lab: JDK, Compiling, Javadoc, Eclipse, Strings
 - Exercise is due on Friday evening
- Monday: UML, Abstraction, Objects, Encapsulation