Brief Review of 1323
To Be Done this Week ...

• Zyante: have access now
• Top Hat: have signed up
  • Make sure that your ID # is the same as what you have on your ID card
• Web-Cat: logged in and changed password

If you don’t have these up, then I need to know about it
Lab 1: Thursday

• Attempt to install Java and Eclipse before lab, but we will reserve some lab time to help with this
• Assignment will be released sometime tonight
• Come to the lab session
Coming Soon...

Project group assignment

• Fill out the survey from Catme. Completion will count as one of your homework assignments. These data are only used for the pairing process

• I will allow pairing requests, but I must have a note in Catme from both sides of the pair
Canvas

• Receiving email ...
more about this course...
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 Java and Eclipse running
• Remember there are lots of ways to solve some of these problems
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:
  
  ```java
  public static void reverse(int[] array)
  ```

• Signature #2:
  
  ```java
  public static int[] reverse(int[] array)
  ```
Lessons from the Lab ...
Lessons from the Lab

• I still have work to do on the Web-Cat server
  • Now have another method for submitting code directly to the Web-Cat server (see our Web-Cat notes)
  • Will open the server up on Tuesday or Wednesday so you can do additional testing

• Specifications matter
• Precision matters
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:
  ```java
  public static int[] insert(int val, int[] list)
  ```

• Then implement:
  ```java
  public static int[] insertionSort(int[] list)
  ```

• Then implement a test in main()
Switch/Case Statements

(eclipse)
UML

• Unified modeling language
• Umlet
  • [http://www.umlet.com/changes.htm](http://www.umlet.com/changes.htm)
# Objects

## Implement this class:

<table>
<thead>
<tr>
<th>Book</th>
</tr>
</thead>
<tbody>
<tr>
<td>-title: String</td>
</tr>
<tr>
<td>-author: String</td>
</tr>
<tr>
<td>-isbn: String</td>
</tr>
</tbody>
</table>

+Book(myAuthor: String, myTitle: String, myISBN: String)  
+getTitle(): String  
+getAuthor(): String  
+getISBN(): String