Brief Review of 1323
Tools that Should be Installed/Configured

• Zyante: first reading due on Monday
• Top Hat: first quiz on Monday
• Web-Cat: logged in and changed password
• Java 8
• Eclipse
TopHat

• You must register with your permanent OU email address & your student ID
  • Our grade transfer code must be able to match your TopHat identity with your Canvas identity

• We will use the quiz and the discussion features in TopHat
  • The quizzes are intended to help our interaction in class. It is considered a conduct violation to participate in quizzes while not being in class
Lab 1: Thursday

• Java, Eclipse and the Web-Cat plug-in need to be installed and working before you walk into the lab session
  • If you need help, please use our office hours to get help
• Assignment has already been released
Coming Soon...

Project group assignment

• Fill out the survey from Catme (email coming soon). 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.
  • Significant others do not necessarily make good project partners.
Expectations

• 4-unit course -> big expectations
  • Lab assignments: designed to largely be completed in the lab session
  • Projects: 2-week assignments. You will need this time to complete these assignments well

• While we are here to help, you must take responsibility for your own learning process
  • Read ahead
  • Learn to read documentation
  • Try different coding ideas
  • Ask questions
Some Statistics (2016)

• 85% of students who start the semester took the final exam
• 13% of students were reported for academic misconduct
• Lab performance was correlated with project performance (R=.77)
• Project performance was correlated with exam performance (R=.68)
Plan for Today

• Review 1323 by solving some problems
  • If you are not comfortable with the material in this review, consider taking 1323 instead

• A good way to proceed is to write your own code while I talk

• Remember there are lots of ways to solve some of these problems
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)
  ```
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()
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
Next Time

• Thursday: Lab
• Monday: Objects in earnest

• For Monday: Zyante reading and homework are due