

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:**

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

- **Signature #2:**

```
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>

Objects

Implement this class:

Book

-title: String

-author: String

-isbn: String

+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