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

<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>
<tr>
<td>+Book(myAuthor: String, myTitle: String, myISBN: String)</td>
</tr>
<tr>
<td>+getTitle(): String</td>
</tr>
<tr>
<td>+getAuthor(): String</td>
</tr>
<tr>
<td>+getISBN(): String</td>
</tr>
</tbody>
</table>
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