

CSC 160 MIDTERM STUDY GUIDE

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The Midterm will be on Friday.

In addition to the concepts appearing on the study guide for the Week 3 quiz.

The important concepts covered since are arrays, methods, method parameters, local variables. Be able to define and explain all these concepts.

Abstract methods and interfaces.

GUI programming: User interface components, layout managers (`FlowLayout`, `BorderLayout` and `GridLayout`). Events, event listeners. Use of `JOptionPane.showMessageDialog`.

You should be able to write a simple GUI program, write a class that implements `ActionListener`, and attach an *ActionListener* to a button.

Programming and Problem Solving skills: be able to write code to sum up all the elements of an array, to compare two arrays of the same size to see if they are equal, to count the number of times a value X appears in an array of string (frequency counts); find the maximum value in an array (without using library classes); determine if an integer is divisible by another integer; and be able to write code that draws geometric patterns using characters (Lab 3-1); arrays (Lab 3-2); text fields (Lab 2-2).