

# cis1.5-spring2007-sklar, lab IV, part 1

## instructions

- This is the first part of the lab/homework assignment for unit IV.
- The entire assignment will be worth 9 points.
- The first part is worth 5 points and will be distributed and worked on in class on Wednesday March 28 and Wednesday April 11.
- The second part is worth 4 points and will be distributed and worked on in class on Wednesday April 11 and Wednesday April 18.
- **Both parts together are due on Monday April 23** and must be submitted by email (as below).
- **Follow these emailing instructions:**
  1. Create a mail message addressed to `sklar@sci.brooklyn.cuny.edu` with the subject line **cis1.5 hw4**.
  2. Attach **ONLY** the **.cpp** files for each part, as outlined below.  
DO NOT ATTACH THE **.cbp** (CodeBlocks Project) files!
  3. Failure to follow these instructions will result in points being taken away from your grade. The number of points will be in proportion to the extent to which you did not follow instructions... (which can make it a lot harder for me to grade your work — grrrr!)

## integer arrays and computing statistics.

For this assignment, you will write a program that generates an array of integers and calculates statistics on the data (i.e., the integers) in the array. You can make your own software design decisions about whether you want to write separate functions to do each step of if you want to do all the steps inside the `main()`.

- Define an integer array to store 10 values. *(1 point)*
- Initialize values in the array to random numbers between 0 and 100. *(1 point)*
- Display on the screen the values stored in the array. *(1 point)*
- Calculate the average of the values stored in the array and display it. *(1 point)*
- Find the largest value stored in the array and display it. *(1 point)*

Compile, build and run your program to make sure it works as you expect it to.