Spring, 2008 Java Review Exercises on Methods

This is to help you to prepare for the second midterm exam. There is nothing to turn in!

One approach could be as follows:

1. First, write a method header that would work with one or more of these sample problems.
2. Second, write a method which returns an appropriate result for the method header above.
3. Finally write an appropriate program to call or invoke this method.

Here are some sample problems on methods to work from:

1. Convert an upper-case letter to a lower case letter and return the lower case letter. (Hint: Check first to be sure that it is not lower case already.)
2. For any given pair of integers, print a statement that states whether the second is a multiple of the first.
3. For any given integer, determine and return whether it is odd or even.
4. For any given (small) number, print a square of asterisks with the length of each side equal to the given number.
5. Calculate and return the area of a circle, given the radius.
6. Simulate tossing a coin.
7. Randomly select and return a lowercase letter in the alphabet.
8. Given a number from 1-12, return the name of the appropriate month
9. Randomly generate and return an integer within a given range
10. Given 5 numbers, return the average (mean).

For questions, send email to deena@cs.nyu.edu