

CS 61B Homework 1  
Due 3pm Friday, January 28, 2005

This homework assignment is meant to make sure you can write, compile, and run simple Java programs. This is an individual assignment; you may not share code with other students. You will need to know how to compile and run Java programs, as described in Lab 1.

Copy the Homework 1 directory by starting from your home directory and typing the following:

```
mkdir hwl
cd hwl
cp $master/hw/hwl/* .
```

#### Problem 1

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Write a program that reads a String from the keyboard. The program should then construct a URL for `http://www.X.com/`, replacing X with the String read in, and print the first five lines of the Web page at that URL in REVERSE ORDER: i.e., the fifth, fourth, third, second, and first lines.

We've already created a skeleton for you in the file `OpenCommercial.java`; you just need to fill it in. Use the `println` method to print each of the five lines, so that there's a carriage return at the end of each line.

To receive credit for this problem, you must follow these directions exactly:

- 1) Your solution must be in a file called `OpenCommercial.java`.
- 2) Do not edit any of the lines before the line that says "Replace this comment with your solution."
- 3) Your program must print only five lines from the given home page, and must print them in reverse order. Do not add any extraneous `println` statements. Do not modify the lines before printing them. The program skeleton we've given you prints a prompt before reading the String; don't change this prompt. Your program must produce EXACTLY the same output as our solution, because we will be using an automatic grading program dumber than a microwave oven.

Be sure you compile your program with `"javac -g OpenCommercial.java"` to make sure it compiles ON THE LAB MACHINES, and run the program using `"java OpenCommercial"` to ensure that it works ON THE LAB MACHINES, before submitting it. If you are working from home, be aware that there might be slight differences between your Java installation and ours, so you should always test your code on the lab machines just before you submit it. No partial credit will be given for programs that don't produce a portion of a Web page.

#### Problem 2

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Write a program called `"Nuke2.java"` containing a class called `Nuke2` whose main method reads a string from the keyboard and prints the same string, with its second character removed. (That's character number 1, since Java numbers characters in a string starting from zero.) In other words, after you run `"java Nuke2"`, if you type in the string `"skin"`, the program will print `"sin"`.

(Note: your program might crash with an error message if you type in a string containing fewer than two characters. That's okay; your program only needs to work correctly on strings at least two characters long.)

To receive credit for this problem, you must follow these directions exactly:

- 1) Your solution must be in a file called `Nuke2.java`, and the main program must be in a class called `Nuke2`.
- 2) Your program must read just one string, then print the same string with the second character omitted, then exit. Do not print anything else. In particular, do not print a prompt.

Again, be certain that your program compiles and runs correctly on the lab machines before you submit it! The automatic grader is not charitable.

#### Submitting your solution

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Warning: the submit command probably won't work until 24 hours after you login to a lab machine for the first time.

Make sure your programs run correctly on the lab machines. Change (`cd`) to your `hwl` directory, which should contain `OpenCommercial.java` and `Nuke2.java`. Type `"submit hwl"`.

After submitting, if you realize one of your programs is flawed, you may fix it and submit again. You will have to resubmit both files, even if you only change one. You may submit as often as you like. Only the last version you submit before the deadline will be graded.

If you only manage to do one of the problems before the deadline, you'll have to create an empty file with the name of the other program so that `"submit hwl"` will work.

This will be the standard procedure for submitting future homeworks and projects as well.