CS 61B Homework 1
Due 3pm Wednesday, January 26, 2000

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.

Read Chapters 1-3 of Arnow and Weiss. 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 hw1
cd hw1
cp $master/hw/hw1/* .
```

Problem 1

Do Problem 1 on page 81 of Arnow and Weiss by adding to the program skeleton given in OpenCommercial.java. Be forewarned that the code presented by Arnow and Weiss at the bottom of page 79 won't compile as written. The "FilterInputStream" should be an "InputStream".

Once you have it working, modify your code so that it prints the first five lines of the company's Web page in reverse order; i.e., the fifth, fourth, third, second, and first lines.

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 to Problem 1 on page 81."
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. 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, and run the program using "java OpenCommercial" to ensure that it works, before submitting it. No partial credit will be given for programs that don't produce a portion of a Web page.

Problem 2

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.

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

Submitting your solution

Clean up your hw1 directory so that it contains only the files OpenCommercial.java and Nuke2.java . In particular, remove all .class files and Emacs backup files (they end with a tilde, "~") before submitting. Change (cd) to your hw1 directory. Type "submit hw1". (The submit command might not work before Monday.)

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 hw1" will work.

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