

CMSI 186

PROGRAMMING LABORATORY

Spring 2008

Program 0: Trial Submission Exercise

This exercise is intended to provide some practice in submitting assignments according to the given specifications. It is a dry-run of sorts, and is not a formal part of the graded coursework.

Program to Write

Create a Java class called *NameGenerator* under the package *cmsi186*. The *public static void main()* method of this class should accept two arguments; the first one is the problem number that is being submitted, while the second is your last name. When invoked, the program should output the directory/*.zip* archive submission name for that assignment.

Thus, the invocation:

```
java cmsi186.NameGenerator 3 Murray
```

...should produce this as output:

```
program3-murray
```

No, that isn't a typo — the submission specification says that this name should be in lowercase.

The program should output this message if two arguments are not provided:

```
Usage: NameGenerator <number> <last name>
```

Lab Report Contents

For this trial exercise, the lab report can be fairly brief, but don't place garbage in it either. Just state what you did, and how you did it. A sample sequence for assembling the submission file, using the Linux command line, is shown on the right. Of course, depending on your operating system and tool environment, the exact sequence of activities may vary. What matters is that, regardless of what you did exactly, you should produce the same final product (i.e., the *.zip* archive that follows the *Assignment Submission Specification* handout).

Sample Linux Command Line Sequence

1. Create the directory structure within which you will do your programming. This assignment's number is zero (0); if your last name is Murray, you would invoke:

```
mkdir -p program0-murray/src/main/java
```

This creates the initial directory structure, except for the package.

2. Do your programming within *src/main/java*:

```
cd program0-murray/src/main/java
```

3. The *NameGenerator* class should be in a package called *cmsi186*, so create a directory for it:

```
mkdir cmsi186
```

4. Write *NameGenerator* within the *cmsi186* directory. With *nano* as an editor, you would invoke:

```
nano cmsi186/NameGenerator.java
```

5. Compile your program:

```
javac cmsi186/NameGenerator.java
```

6. Run and test it:

```
java cmsi186.NameGenerator 3 Murray
```

7. To write the lab report, first return to the top-level directory of your submission:

```
cd ../../..
```

8. You should be back in the *program0-murray* directory (if your last name is Murray). If you are using *nano* to edit your files, invoke:

```
nano lab-report.txt
```

9. After finishing the report, create the *.zip* archive. Go "above" the submission directory:

```
cd ..
```

10. Create the archive as follows (if your last name is Murray):

```
zip -r program0-murray program0-murray
```

11. You should now have a file named *program0-murray.zip* in this directory; e-mail this file to me as specified.