



Lab 04: Nested Loops

In this lab you will be creating sentinel controlled loops.

Exercises

- 1) Ask the user for a positive integer. Then using nested loops, print out a block of "!" with those dimensions.

```
Enter a positive integer: 4
!!!!
!!!!
!!!!
!!!!
```

- 2) Ask the user for a number less than 100, then print out a times table up to the input. For the test case to work, each "cell" below should use 4 spaces and be right justified.

```
Enter a number less than 100: 4
 1   2   3   4
 2   4   6   8
 3   6   9  12
 4   8  12  16
```

- 3) Using Nested Loops, print a checker board like the one below.

```
@ @ @ @ @ @ @ @
@ @ @ @ @ @ @ @
 @ @ @ @ @ @ @ @
@ @ @ @ @ @ @ @
  @ @ @ @ @ @ @ @
@ @ @ @ @ @ @ @
  @ @ @ @ @ @ @ @
```

You may **ONLY** use these 3 print statements.

```
System.out.print("@ ");
System.out.print(" ");
System.out.println();
```



Exercises

- 4) Ask the user for a letter, then a positive integer. Then using nested loops, print a pyramid made of those letters with the given number of rows.

```
Enter a letter: G
Enter a positive integer: 4
  G
 GGG
GGGGG
GGGGGGG
```

Other than getting input, you may only print one of 3 things:
a space, the letter, or move to the next line

