CS 312 Practice

2.3 - For Loop

Name: _____ EID: _____

1. How many asterisks are in this code's output? _____

```
54          int j = 11;
55          for(int i = j/2; i >= -2; i--) {
56              System.out.print("*");
57              System.out.print("**");
58          }
```

2. Write a program to define an integer called num, then calculate and print the factorial of that number. (N!, when N is 4 is 1 * 2 * 3 * 4.)

3. What is the output of this code? Make note of the code circled in red.

```
77          for (int i = 1; i <= 5; i++) {
78              for (int j = 1; j <= (i) j++) {
79                  System.out.print(i);
80              }
81              System.out.println();
82          }
```

==================== Answers ====================

Question 1
24 asterisks in one line

Question 2
```
38      int factorial = 1;
39      int num = 4;
40      for (int i=1; i<=num; i++) {
41          factorial *= i;
42      }
43      System.out.println (num + "! = " + factorial);
```

Question 3
1
22
333
4444
55555