

CMSC131, Spring 2022, QUIZ #2 (DURATION: 20 MINUTES) – 30 pts

FIRSTNAME, LASTNAME (PRINT IN UPPERCASE):

STUDENT ID (e.g. 123456789):

INSTRUCTIONS:

- Write a program that will prompt for an increment value followed by another prompt for a number of terms. Assume the inputs will be integers, but if either one is less than 1, simply print Bad input. Assuming valid input, print out a triangle of integers with 10 rows. The starting integer will always be 1 and the next integer will be the previous integer plus the increment value. Once you have printed out the specified number of terms, restart the pattern. Printing out a triangle means row 1 will have 1 number, row 2 will have 2 numbers, and row n will have n numbers.

Here are 3 different sample runs (with user input in italic and output in bold just to make it easier to understand how it works).

```
Sample run #1
Enter increment amount: 5
Enter number of terms: 0
Bad input
```

```
Sample run #2
Enter increment amount: 5
Enter number of terms: 7
1
6 11
16 21 26
31 1 6 11
16 21 26 31 1
6 11 16 21 26 31
1 6 11 16 21 26 31
1 6 11 16 21 26 31 1
6 11 16 21 26 31 1 6 11
16 21 26 31 1 6 11 16 21 26
```

```
Sample run #3
Enter increment amount: 3
Enter number of terms: 100
1
4 7
10 13 16
19 22 25 28
31 34 37 40 43
46 49 52 55 58 61
64 67 70 73 76 79 82
85 88 91 94 97 100 103 106
109 112 115 118 121 124 127 130 133
136 139 142 145 148 151 154 157 160 163
```

- Notice no repeats in sample run 3 since there are more terms in the sequence than number needed in a 10 row triangle.

WRITE THE CODE ON THE BACK

```
import java.util.Scanner;
public class Q2 {
    public static void main(String[] args) {
```

```
    }
```

```
}
```