

CMSC131, Spring 2024, QUIZ #2 (DURATION: 25 MINUTES) – 30 pts

FIRSTNAME, LASTNAME (PRINT IN UPPERCASE):

STUDENT ID (e.g. 123456789):

INSTRUCTIONS:

1. Based on what you learned in lab, what does the following print?

`System.out.println("CMSC131".charAt(2));` Answer: _____

2. In your own words, what does short-circuit evaluation with an `&&` operator mean? No more than a 2 sentence answer.

Answer: _____

3. What does the following print?

```
int x = 29;
int y = x++;
System.out.println(y++);
```

Answer: _____

4. Write a program that will print an uppercase E. If the number of `rows` is less than 5 or if it is not odd, simply print **Bad input**. Otherwise print an E that has number of rows being equal to the variable `rows`. The first, middle, and last row should have 2 less * than the value of `rows`, and all other rows should have one *. Since rows will always be odd, think about how you can use integer division to figure out which row will be the middle row. You cannot use a `return` in your code or print out a space (e.g. `System.out.print(" ");`). Also, no library methods other than what is given, using `print` and `println`, `nextInt`, and closing the scanner. See sample runs below with the user input being underlined.

Sample run #1	Sample run #2	Sample run #3
Enter number of rows: <u>13</u> ***** * * * * * ***** * * * * * *****	Enter number of rows: <u>9</u> ***** * * * ***** * * *****	Enter number of rows: <u>12</u> Bad input

WRITE THE CODE ON THE BACK

```
import java.util.Scanner;
```

```
public class Quiz2 {
```

```
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        int rows;
```

```
    }
```

```
}
```