

CMSC131 QUIZ #2 KEY SPRING 2020 (DURATION: 20 MINUTES)

FIRSTNAME, LASTNAME (PRINT IN UPPERCASE):

STUDENT ID (e.g. 123456789):

Complete the program below that prints a triangle where odd columns use the * symbol and even columns use a symbol provided by the user. The program will read the size (an integer value) and a symbol (a string). After reading these values, the program will generate a triangle with a number of rows corresponding to size, and where * and the provided symbol alternate as columns are printed. We use the message "Enter size:" and "Enter symbol:" to read the size and string, respectively. Below we have provided two examples of running the program. Notice your program must work for other values. Underlined text represent input provided by the user. Remember you can use the Scanner methods nextInt() and next() to read an integer and a string, respectively. Write your code in the provided rectangular area.

One Possible Solution

```
int maxRows = scanner.nextInt();
System.out.print("Enter symbol: ");
String userSymbol = scanner.next(), symbol;

for (int row = 1; row <= maxRows; row++) {
    for (int col = 1; col <= row; col++) {
        if (col % 2 != 0) {
            symbol = "*";
        } else {
            symbol = userSymbol;
        }
        System.out.print(symbol);
    }
    System.out.println(); // newline
}

scanner.close();
```