Loops

1. What is the output of the following code fragment?

```c
int a, b = 10, c;
printf("%d\n", (a = 5, c = b, 34));
```

2. What is the output of the following code fragment?

```c
int i;
for (i = 0; ;) {
    printf("%d\n", i);
}
```

3. Write a C program that draws a rectangle. The program will read two integer values that represent the number of rows and columns associated with the rectangle. The following is the output generated by the program when 3 and 8 are provided as input:

```
********
********
********
```

Use for loops for this problem.

4. Rewrite the previous program so we can specify which character to use (e.g., instead of * we would like to use any character).

5. Find max from the sequence of positive integers user entered. Use scanf to receive integers. User enters 0 to indicate the last number entered.

6. Find the lexicographically last letter from the sequence of characters user entered. Use scanf to receive characters. User enters '.' to indicate the last number entered.

7. Compute the average of the positive integers user entered. Display the average rounded to the second decimal places (e.g., 12.45). Use scanf to receive integers. User enters 0 to indicate the last number entered.

8. Students receive A, B, C, and D if their grades are greater than or equal to 90, 80, 70, and 60, respectively. Below 60 will get F. Write a program that receive a sequence of integers from users and display the number of students for each grade. User enters '-1' to indicate the last number entered.