
Loops

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

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

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

```
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.

- Rewrite the previous program so we can specify which character to use (e.g., instead of * we would like to use any character).
- Find max from the sequence of positive integers user entered. Use `scanf` to receive integers. User enters 0 to indicate the last number entered.
- 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.
- 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.
- 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.