

Computer Programming

Quiz1

Apr. 20, 2022





• Write a program that receives integers until 0 is input and outputs the number and average of even numbers (except 0), and the number and average of odd numbers.



Program output

```
[ohyong@newton Quiz1_s456]$ vi pr1.c
[ohyong@newton Quiz1_s456]$ gcc pr1.c -o pr1
[ohyong@newton Quiz1_s456]$ ./pr1
Enter integers. Enter 0 to stop entering integers : 2
Result
Number of evens: 2 average: 3
Number of odds: 1 average: 5
[ohyong@newton Quiz1_s456]$ ./pr1
Enter integers. Enter 0 to stop entering integers: 3 -4 -2 5 0
Result
Number of evens: 2 average: -3
Number of odds: 2 average: 4
[ohyong@newton Quiz1_s456]$ ./pr1
Enter integers. Enter 0 to stop entering integers : 1 3 7 4 2
Result
Number of evens: 2 average: 3
Number of odds: 3 average: 3.66667
```



• Write a program that draws the following pattern using a nested loop after receiving a positive integer num value. If you simply draw using the printf() function, you get 0 points.

• Program output

```
[ohyong@newton Quiz1_s456]$ vi pr2.c
[ohyong@newton Quiz1_s456]$ gcc pr2.c -o pr2 -std=c99
[ohyong@newton Quiz1_s456]$ ./pr2
Enter the num: 5
     **
     ***
     ***
     ***
     ***
     ****
```



• Write a program that takes as input a positive integer less than or equal to 1 million and outputs the number in reverse order.



• Program output

```
[ohyong@newton Quiz1_s456]$ vi pr3.c
[ohyong@newton Quiz1_s456]$ gcc pr3.c -o pr3 -std=c99
[ohyong@newton Quiz1_s456]$ ./pr3
Input an integer: 12345
The number in reverse order is : 54321
```

[ohyong@newton Quiz1_s456]\$./pr3

Input an integer: 123456789

The number in reverse order is : 987654321

Submission



Submit to Newton server

At the end of the Quiz1, submit your C source file by typing

~gs1401/bin/submit Quiz1_s456 pr1.c pr2.c pr3.c // due: 11:30 am

You may check that you have submitted your source code correctly by typing

~gs1401/bin/submit -check