

## Lab 7

Edward Nafornta

Comp-1400

November 8, 2021

### Part A:

a)  $1*3*9*27*81*$

b) 11---12---13---14---15  
16---17---18---19---20

c) 4-6  
5-5

d) 20

e) 5  
4  
3  
2  
1  
0  
-1  
-2  
-3  
-4  
-5  
-6  
.  
.  
.  
-infinity

The reason behind the infinite loop is due to the nature of the unsigned datatype. The for loop contains the condition of  $i \geq 0$ , meaning it's looking for a value that is greater than or equal to zero, but since  $i$  gets updated to -1 essentially unsigned is trying to find a positive value to get rid of the -1. But the condition  $i--$ , will continue to proceed into the negative values. Thus, giving you a infinite loop due to the contradiction between the unsigned datatype and the loop condition not breaking.

f) Sum of 1 to 5 is 15