

Case Western Reserve University

Department of Computer and Data Sciences

EECS 349&444: Computer Security

Assignment Date:	10/15/2019
Sumission Date:	10/18/2019@9:59am
First Name:	
Last Name:	
Google Drive Link:	
Abstract of the feedback:	

* This is the part of Q2 and Q3 for HW2 which contains 20 points (10/pts per question). You are encouraged to finish independently. Any submitted work that it copied from any source or too similar to be an independent write-up will not be given credit. Please submit your solutions along with your detailed analysis for each line of code (e-copy) on Canvas by 9:59am on 10/18/2019.

HW-2: Assembly Code Analysis

Q2: Functionality?

```
DATA
     SEGMENT
X DB
      25
Υ
  DB
      32
Ζ
  DW ?
DATA
     ENDS
CODE
      SEGMENT
  ASSUME CS:CODE,DS:DATA
START:
       MOV
            AX,DATA
  MOV
       DS,AX
  MOV AL,X
  MUL
       AL
  MOV
       BX.0
  MOV
       BL,Y
  ADD
       BL,BL
  ADC
       BH,0
       BL.Y
  ADD
  ADC
       BH.0
  SUB AX,BX
  SHR
      AX,1
  MOV
       Z,AX
  MOV AH,4CH
  INT
      21H
CODE ENDS
  END START
```

Q3: Functionality?

```
array dd 34,12,3,18
szMsg db "%d",0ah,0
.code
start:
     mov ecx,3
L2:
     push ecx
     xor esi,esi
     mov ecx,3
L0:
     mov ebx,array[esi]
     cmp ebx,array[esi 4]
     jb L1
     xchg ebx,array[esi 4]
     mov array[esi],ebx
     add esi,4
L1:
     loop L0
     pop ecx
     loop L2
     xor esi,esi
     mov ecx,4
     push ecx
     invoke printf,offset szMsg,array[esi]
     add esi,4
     pop ecx
     loop L3
end start
```