### Quiz 4

**Due** Dec 2, 2021 at 11:59pm **Points** 100 **Questions** 5 **Available** Dec 1, 2021 at 11:59pm - Dec 2, 2021 at 11:59pm 24 hours **Time Limit** 20 Minutes

### Instructions

Dear Class,

Quiz 4 is available from 00:00 am to 11:59 pm (24 hours) on Dec 2nd central time. You may start anytime during this period, but you have only one attempt and 20 minutes to finish once started.

Good luck!

Your TAs

This quiz is no longer available as the course has been concluded.

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	18 minutes	80 out of 100

### (!) Correct answers are hidden.

Score for this quiz: **80** out of 100 Submitted Dec 2, 2021 at 12:27pm This attempt took 18 minutes.

```
Question 1 20 / 20 pts
```

```
.DATA
array SBYTE -19, -3, -1, 0, 1, 3, 8, 24, 53, 100
v SBYTE 3
.CODE
```

```
main PROC
  CLD
  MOV EBX, 1
  MOV AL, v
  MOV ECX, LENGTHOF array
  MOV EDI, OFFSET array
  REPNE SCASB
  CMP ECX, 0
  JNZ D
  MOV EBX, 0
  D:
  INVOKE ExitProcess, 0
main ENDP
1. Replace the line "v SBYTE 3" with "v SBYTE 2". What is the value of
ECX after the program executes?
   0
   2
   0 4
   OA
```

```
.DATA
    array SBYTE -19, -3, -1, 0, 1, 3, 8, 24, 53, 100
    v SBYTE 3
.CODE
    main PROC
    CLD
    MOV EBX, 1
```

```
MOV AL, v
  MOV ECX, LENGTHOF array
  MOV EDI, OFFSET array
  REPNE SCASB
  CMP ECX, 0
  JNZ D
  MOV EBX, 0
  D:
  INVOKE ExitProcess, 0
main ENDP
2. Replace the line "v SBYTE 3" with "v SBYTE 2". What is the value of
EBX after the program executes?
   0
   2
   4
   OA
```

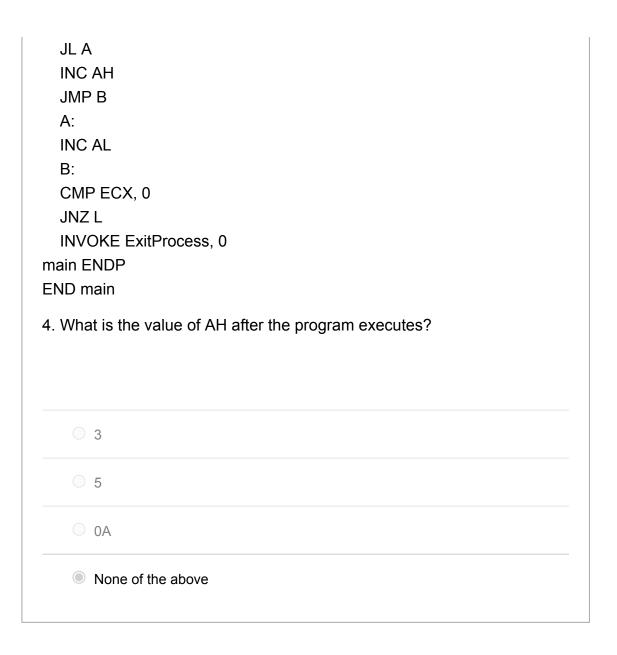
# DATA array SBYTE -19, -3, -1, 0, 1, 3, 8, 24, 53, 100 CODE main PROC MOV ECX, LENGTHOF array MOV EAX, 0 L: DEC ECX CMP array[ECX], 0 JL A

```
INC AH
  JMP B
  A:
  INC AL
  B:
  CMP ECX, 0
  JNZ L
  INVOKE ExitProcess, 0
main ENDP
END main
3. Replace the line "array SBYTE -19, -3, -1, 0, 1, 3, 8, 24, 53, 100" with
"array SBYTE
8, 24, 53, 100". After the program executes what will the value of AH be?
   2
   4
   8
   24
```

20 / 20 pts

### .DATA array SBYTE -19, -3, -1, 0, 1, 3, 8, 24, 53, 100 .CODE main PROC MOV ECX, LENGTHOF array MOV EAX, 0 L: DEC ECX CMP array[ECX], 0

**Question 4** 



## Rectangle STRUCT len WORD 2 wid WORD 2 Rectangle ENDS .DATA r Rectangle <> .CODE main PROC MOV AX, r.len MUL r.wid

INVOKE ExitProcess, 0 main ENDP
5. Replace the line, "r Rectangle <>" with "r Rectangle <, 1>". What is the value of AX after the program executes?
O 2
4
None of the above

Quiz Score: 80 out of 100