

# 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	<a href="#">Attempt 1</a>	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

☐ 4

☐ 0A

## Question 2

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
```

2. Replace the line "v SBYTE 3" with "v SBYTE 2". What is the value of EBX after the program executes?

☒ 0

☐ 2

☐ 4

☐ 0A

### Question 3

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
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

#### Question 4

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
```

```
JL A
INC AH
JMP B
A:
INC AL
B:
CMP ECX, 0
JNZ L
    INVOKE ExitProcess, 0
main ENDP
END main
```

4. What is the value of AH after the program executes?

☐ 3

☐ 5

☐ 0A

☒ None of the above

Incorrect

### Question 5

0 / 20 pts

```
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?

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☐ 0

---

☐ 2

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☒ 4

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☐ None of the above

Quiz Score: **80** out of 100