

# Summary Exercise - Week 9

**Due** Dec 1 at 11:59pm

**Points** 13

**Questions** 8

**Available** Nov 24 at 12am - Dec 1 at 11:59pm 8 days

**Time Limit** 360 Minutes

**Allowed Attempts** 2

## Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 2</a>	4 minutes	13 out of 13
LATEST	<a href="#">Attempt 2</a>	4 minutes	13 out of 13
	<a href="#">Attempt 1</a>	40 minutes	13 out of 13

Score for this attempt: **13** out of 13

Submitted Nov 25 at 11:28pm

This attempt took 4 minutes.

### Question 1

1 / 1 pts

Which structure is the following true for?

\_\_\_\_\_ may have parameters.

Correct!

- ☒ Both Macros and Procedures
- ☐ Procedures
- ☐ Macros
- ☐ Neither Macros Nor Procedures

### Question 2

1 / 1 pts

Which structure is the following true for?

For \_\_\_\_\_, arguments are substituted exactly as entered, without checking for memory, registers, or literals.

Correct!

- ☒ Macros
- ☐ Neither Macros Nor Procedures
- ☐ Procedures
- ☐ Both Macros and Procedures

### Question 3

1 / 1 pts

Which structure is the following true for?

\_\_\_\_\_ have a calling mechanism involving the EIP.

- ☐ Neither Macros Nor Procedures
- ☐ Macros
- ☒ Procedures
- ☐ Both Macros and Procedures

Correct!

### Question 4

3 / 3 pts

Suppose that a program's data and executable code require 1,024 bytes of memory. A new section of code must be added; it will be used with various values 36 times during the execution of a program. When implemented as a macro, the macro code requires 79 bytes of memory. When implemented as a procedure, the procedure code requires 154 bytes (including parameter-

passing, etc.), and each procedure call requires 14 bytes.

How many bytes of memory will the entire program require if the new code is added as a procedure?

Correct!

1,682

Correct Answer

1,682

### Question 5

3 / 3 pts

Suppose that a program's data and executable code require 1,024 bytes of memory. A new section of code must be added; it will be used with various values 80 times during the execution of a program. When implemented as a macro, the macro code requires 88 bytes of memory. When implemented as a procedure, the procedure code requires 103 bytes (including parameter-passing, etc.), and each procedure call requires 14 bytes.

How many bytes of memory will the entire program require if the new code is added as a macro?

Correct!

8,064

Correct Answer

8,064

### Question 6

2 / 2 pts

The code below uses the Space macro which simply displays the number of blank spaces specified by its argument. What is the first number printed to the screen after this code executes? (ignore the .0000 from Canvas)

```
main PROC
    push 3
```

```
    push 12
    call rcrsn
    exit
main ENDP

rcrsn PROC
    push ebp
    mov ebp,esp
    mov eax,[ebp + 12]
    mov ebx,[ebp + 8]
    cmp eax,ebx
    jl recurse
    jmp quit
recurse:
    inc eax
    push eax
    push ebx
    call rcrsn
    mov eax,[ebp + 12]
    call WriteDec
    Space 2
quit:
    pop ebp
    ret 8
rcrsn ENDP
```

Correct!

11

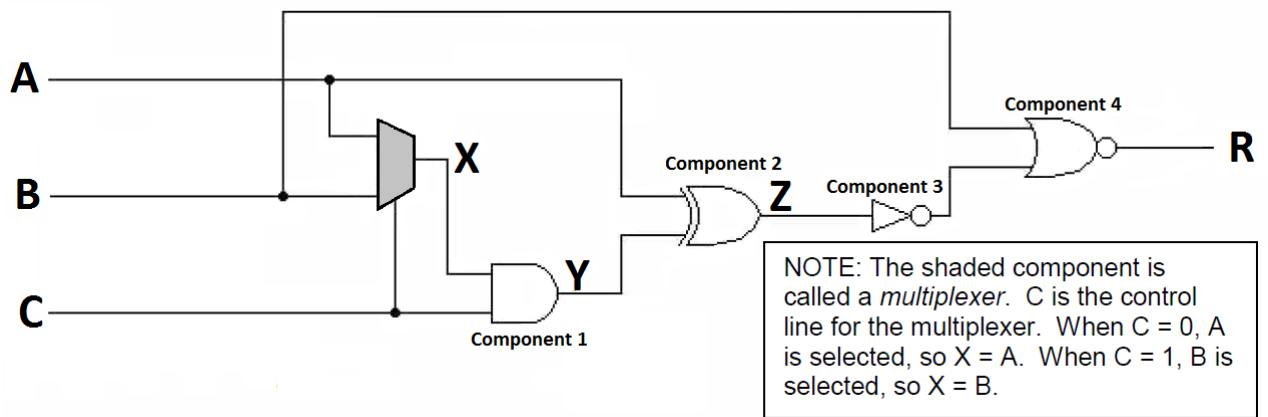
Correct Answer

11

## Question 7

1 / 1 pts

Which of the digital logic symbols from the following diagram is a NOR gate?



☐ Component 2

☐ Component 3

Correct!

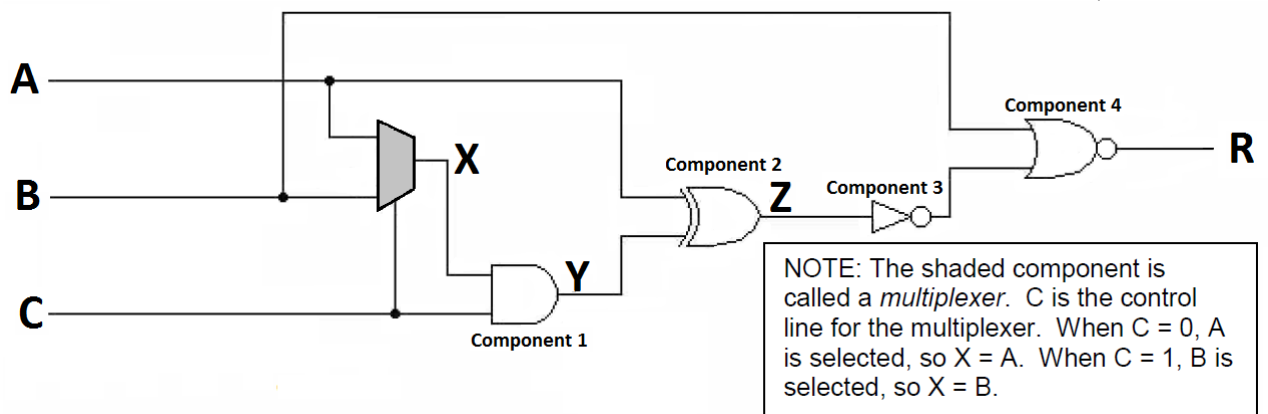
☒ Component 4

☐ Component 1

## Question 8

1 / 1 pts

Which of the digital logic symbols from the following diagram is an AND gate?



☐ Component 4

☐ Component 2

Correct!

☒ Component 1

☐ Component 3

Quiz Score: **13** out of 13