

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

[Take the Quiz Again](#)

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	40 minutes	13 out of 13

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

Submitted Nov 25 at 11:23pm

This attempt took 40 minutes.

Question 1

1 / 1 pts

Which structure is the following true for?

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

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

Correct!

Question 2

1 / 1 pts

Which structure is the following true for?

_____ have a return mechanism involving the system stack.

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

Correct!

Question 3

1 / 1 pts

Which structure is the following true for?

For _____, the entire code is substituted for each call.

- ☐ Both Macros and Procedures
- ☒ Macros
- ☐ Procedures
- ☐ Neither Macros Nor 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 113 bytes of memory. When implemented as a procedure, the procedure code requires 169 bytes (including parameter-passing, etc.), and each procedure call requires 8 bytes.

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

Correct!

5,092

Correct Answer

5,092

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 73 times during the execution of a program. When implemented as a macro, the macro code requires 81 bytes of memory. When implemented as a procedure, the procedure code requires 123 bytes (including parameter-passing, etc.), and each procedure call requires 13 bytes.

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

Correct!

2,096

Correct Answer

2,096

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 6
```

```
    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!

5

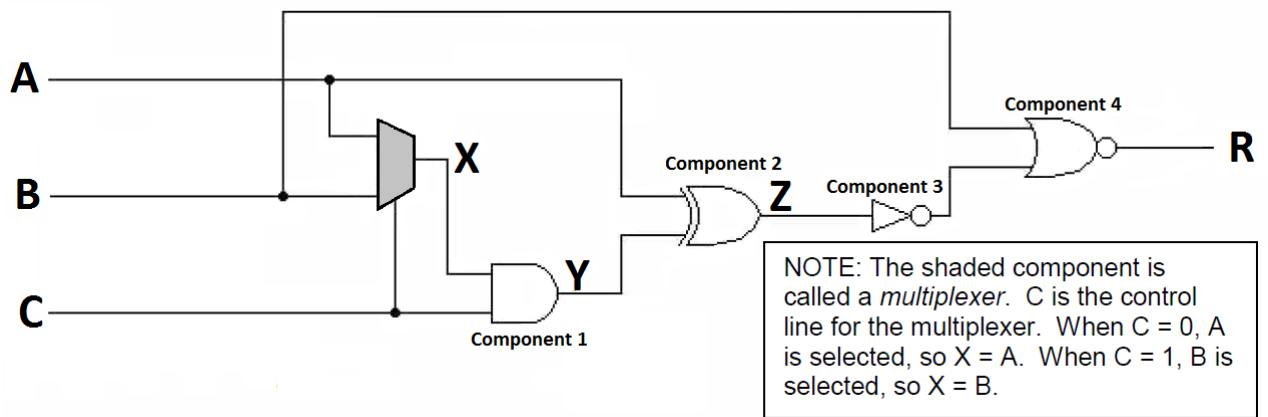
Correct Answer

5

Question 7

1 / 1 pts

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



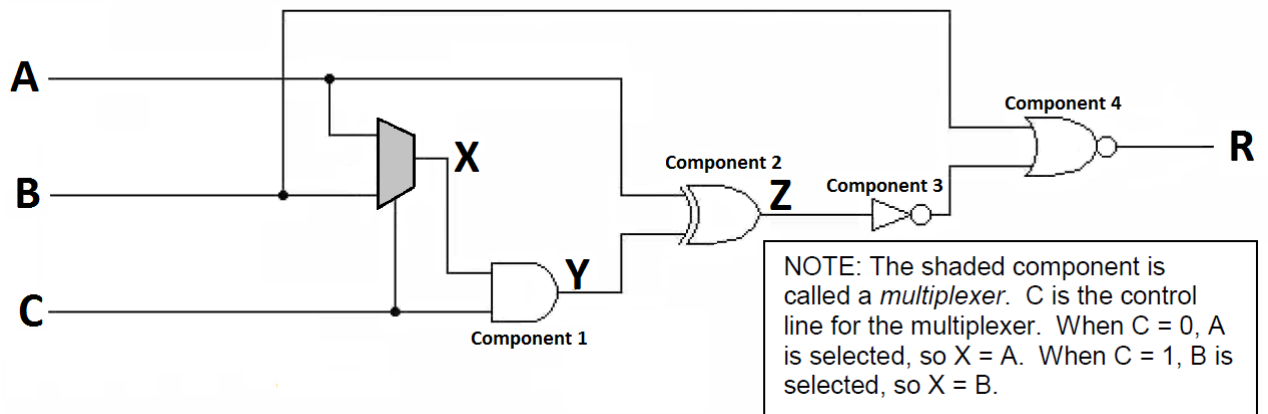
- ☐ Component 4
- ☐ Component 3
- ☐ Component 2
- ☒ Component 1

Correct!

Question 8

1 / 1 pts

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



- ☒ Component 4
- ☐ Component 2
- ☐ Component 3

Correct!

☐ Component 1

Quiz Score: **13** out of 13