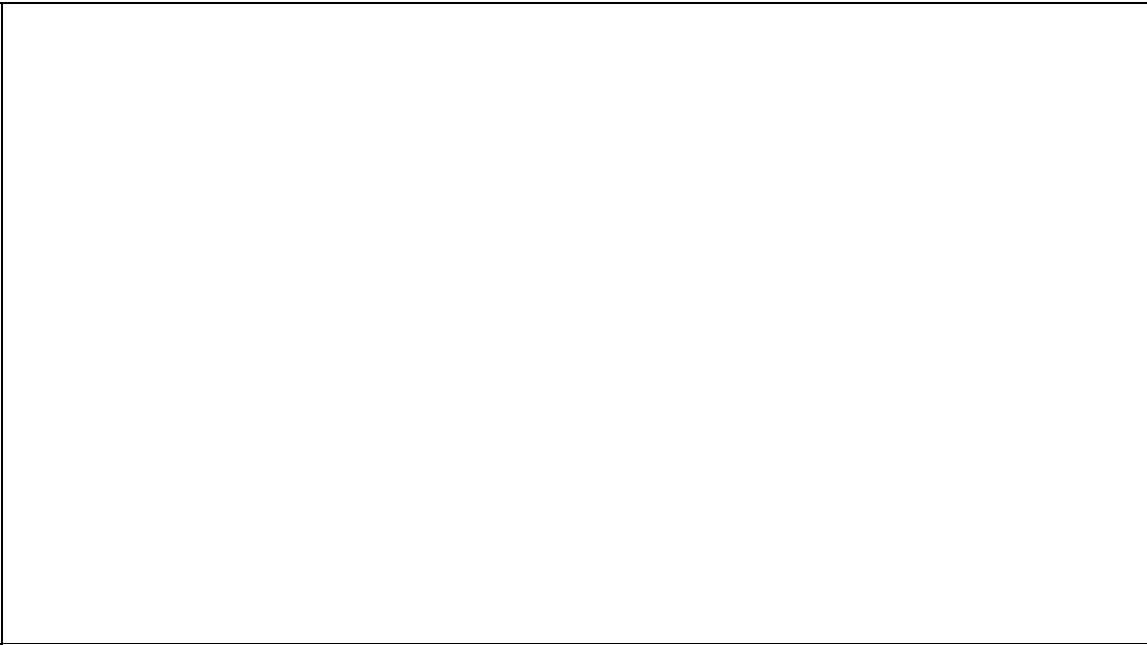


LOGICAL OPERATIONS




6:52 / 6:52	1.0x			
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1. CHECK YOUR UNDERSTANDING (1/1 point)

Consider three variables with the following values, $x = 0$, $y = 1$, $z = 0$. Which of the following is true?

- ☐ The output of x AND z is the same as x OR y OR z .
- ☒ The output of x AND y AND z is the same as x OR z . 
- ☐ The output of x AND y is different than x OR z .
- ☐ The output of x AND y AND z is the same as x OR y OR z .

EXPLANATION

x AND $z = 0$, which is not the same as x OR y OR $z = 1$.

x AND y AND $z = 0$, which is the same as x OR $z = 0$.

x AND $y = 0$, which is not different than x OR $z = 0$.

x AND y AND $z = 0$, which is not the same as x OR y OR $z = 1$.

Final Check

Save

Hide Answer

You have used 1 of 2 submissions

Help

2. CHECK YOUR UNDERSTANDING (1/1 point)

What is the result of 11001010 AND 11110000?

☐ 00000000☐ 11111111☐ 11111010☒ 11000000

EXPLANATION

Bit by bit ANDing of the number 11001010 with 11110000 will cause the leftmost four bits of the number to be unchanged and the rightmost four bits to be cleared.

Final Check

Save

Hide Answer

You have used 1 of 2 submissions



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