Quiz 3: Number Representation

Steven Andrew Wolfman Started: September 20, 2011 3:56 PM Questions: 11

Finish Save All

Help

Instructions

Readings for this quiz: 1.5 (Epp 3rd ed) or 2.5 (Epp 4th ed); also the <u>supplement on signed</u> <u>binary/decimal number conversion</u>.

SPECIAL FOR THIS QUIZ: most questions are randomly generated. So, you can get lots of practice taking and retaking the quiz. However, Vista shows answers as decimal numbers (like 1,010 rather than 001010). Read its answers with caution!

These quizzes are open book. You may use any non-human aides, e.g., the textbook or web articles, to assist you. The first part is marked for completeness and correctness and to be completed individually with no assistance from anyone. The second part (of open-ended questions) is marked only for completeness. You may discuss these questions but must work individually when you write your answer.

Submit your quiz by its deadline (9PM on the due date). Only attempts submitted by that time will be marked. **It is your responsibility to submit the quiz by the listed time.**

Briefly acknowledge any assistance, including sources you quote or draw on directly. You need not acknowledge the text or course staff unless you quote them.

1-8 Marked for completeness and correctness

1. (Points: 3)

What is the decimal representation of the unsigned binary number 111101?

Answer

Save Answer

2.(Points: 3)

What is the 8-bit (unsigned) binary representation of the decimal number 32?

Answe	r	
Save A	nswer	

3. (Points: 2)

What is the 4-bit binary sum of the two 3-bit binary numbers 101 and 000?

Answer

Save Answer

4.(Points: 3)

What is the 6-bit signed binary representation of the decimal number 29?

(Points: 3)	the signed 6 bit binary number 1011102	
	the signed 6-bit binary number 101110?	
Answer		
Save Answer		
(Points: 3)		
What is the two's compleme	nt of the 6-bit binary number 110110 (as a 6-bit	binary number)?
Save Answer		
Save Answer . (Points: 4) Complete the following table	, converting the (unsigned) 8-bit binary numbers	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa.	, converting the (unsigned) 8-bit binary numbers	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number	, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 00000000 01011110	r, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 00000000 01011110 01110110	, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 0000000 01011110 0110110 01001101	, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 0000000 01011110 01110110 0110110	r, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E 84	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 0000000 01011110 01110110 01001101	converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E 84 5D	to hexadecimal or vice
Save Answer (Points: 4) Complete the following table versa. 8-bit binary number 0000000 01011110 0110110 01001101	, converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E 84 EB	to hexadecimal or vice
Save Answer . (Points: 4) Complete the following table versa. 8-bit binary number 0000000 01011110 0110110 01001101 Save Answer	converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E 84 EB	to hexadecimal or vice
Save Answer Complete the following table versa. B-bit binary number 0000000 01011110 0110110 01001101 Save Answer	converting the (unsigned) 8-bit binary numbers 2-digit hexadecimal number 00 5E 84 EB	to hexadecimal or vice

🔘 True 🔘 False

Save Answer

9-10 Marked for completeness

9.(Points: 10)

Imagine the time is currently 1500h, which we'll just call 15 for convenience. How could you quickly answer the following two questions without using a calculator:

- What time was it 8 * 21 hours ago?
- What time will it be 13 * 23 hours from now?

In case it helps, here's a 24-hour analog clock (from World Time Server).



Save Answer

10. (Points: 10)

Can you be one-third Scottish?



1.

Save Answer

11. (Points: 0)

Please acknowledge any sources/help you received, as described in the quiz's description above.

1.	
2.	
3.	
4.	
5.	

Save Answer

Finish Save All

Help