HW2: Negative Values In Binary

Due Jan 16 at 11:59pm Points 10 Questions 6 Available Jan 9 at 12am - Jan 23 at 11:59pm 15 days
Time Limit None

Instructions

- 2's complement conversions
- binary arithmetic with negative values

This quiz was locked Jan 23 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	47 minutes	10 out of 10

Score for this quiz: **10** out of 10 Submitted Jan 10 at 9:03am This attempt took 47 minutes.

	Question 1	1 / 1 pts
	Convert the signed decimal value -115 to 8-bit signed binary	
Correct!	10001101	
	O 10010111	
	O 10001000	
	O 10010010	

Question 2	1 / 1 pts
Convert the signed decimal value -110 to 8-bit signed binary	
O 10001101	
O 10001000	
10010010	

Correct!

0 10010111			

	Question 3		5 / 5 pts
	In a given 8-bit computer system, values a value with its decimal equivalent.	are represented in two's complement form. Ma	tch each binary
Correct!	01000111	71	*
Correct!	01110000	112	\$
Correct!	11000001	-63	*
Correct!	10010111	-105	•
Correct!	01010101	85	*
	Other Incorrect Match Options: • 101 • -86 • 124 • -113 • 61		

Question 4	1 / 1 pts
Add the two signed 8-bit values 00111001 and 00101000 using binary arithmetic. If Signed 0 occurs enter OVERFLOW! for your answer.	Overflow
11000100	
OVERFLOW!	
10001010	

	01111001	
	01111010	
	00111100	
Correct!	01100001	

	Question 5	1 / 1 pts
	Add the two signed 8-bit values 00111101 and 00111101 using binary arithmetic. If Signed Ove occurs enter OVERFLOW! for your answer.	rflow
	OVERFLOW!	
Correct!	01111010	
	01100001	
	O1111001	
	O0111100	
	O 10001010	
	11000100	

Question 6	1 / 1 pt
Add the two signed 8-bit values 01011000 and 00110010 using binary arithmetic. occurs enter OVERFLOW! for your answer.	If Signed Overflow
O 10001010	
01100001	

Correct!

11000100			
01111010			
00111100			
01111001			

Quiz Score: 10 out of 10