<u>Dashboard</u> / My cou	rses / <u>ln20-S1-CS1033 (113946)</u> / Week 8 [21/09/2021] / <u>Quiz 6</u>
Started on	Friday, 24 September 2021, 9:52 PM
State	Finished
Completed on	Friday, 24 September 2021, 9:53 PM
Time taken	1 min 42 secs
Grade	10.00 out of 10.00 (100 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
2 ³⁰ bytes? a. Yes b. No Your answer is correct	
Question 2 Correct	
Mark 1.00 out of 1.00	

The IEEE single-precision format for floating-point representation uses 32 bits, which is divided as follows:

 $sign \rightarrow 1$ bit, mantissa $\rightarrow 23$ bits, and exponent $\rightarrow 8$ bits. If the decimal number 7.3125₁₀ is represented in this format, what will be the correct mantissa? You may omit any trailing zeros in your answer(i.e., no need to write insignificant 0 digits). Also do not need to mention the base of the value(i.e., 101_2 could be written as 101).

The correct answer is: 110101

Question 3	
Correct May 14 00 and 14 00	
Mark 1.00 out of 1.00	
The IEEE single-precision format for floating-point representation uses 32 bits, which is divided as	
sign -> 1 bit, mantissa -> 23 bits, and exponent -> 8 bits. If the decimal number 31.3125 ₁₀ is re 8-bit exponent? You do not need to mention the base of the value(i.e., 101 ₂ could be written as 1	
	5 I).
Answer: 10000011 ✓	
The correct answer is: 10000011	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What will be the output of the following Python code?	
print ((0b1101 & ~1) (0o033 >> 0x2))	
Answer: 14 ✓	
The correct answer is: 14	
The Correct answer is. 14	
Question 5	
Correct	
Mark 1.00 out of 1.00	
An integer N is represented in 8-bit two's complement notation as 1001 1100 ₂ . Which of the follows	owing is the correct decimal value of N?
Select one:	
a. 156 ₁₀	
○ b156 ₁₀	
© c100 ₁₀	~
○ d132 ₁₀	
○ a	
Your answer is correct.	
The correct answer is: -100 ₁₀	

Question 6		
Correct Mark 1.00 out of 1.00		
Mark 1.00 out of 1.00		
An integer N is represented in 8-bit two's complement notation as 1111 0011 ₂ . Which of the following is the correct decimal value of N?		
Select one:		
○ a. 243 ₁₀		
■ b13₁₀		
○ c125 ₁₀		
○ d243 ₁₀		
Your answer is correct.		
The correct answer is: -13 ₁₀		
Question 7		
Correct		
Mark 1.00 out of 1.00		
Will the 8-bit two's complement representation for -15_{10} be 11110000_2 ?		
■ a. No ✓		
O b. Yes		
Your answer is correct.		
The correct answer is:		
No No		
Question 8		
Correct		
Mark 1.00 out of 1.00		
How will the number 45612.3789 ₁₀ be represented in a decimal floating-point notation which has a 5-digit mantissa, the decimal point after		
the second digit from left, and 10 as the base for the exponent?		
a. 4.56123789 * 10^4		
○ b. 4.5612 * 10^4		
○ c. 45.6123789 * 10^3		
◎ d. 45.612 * 10^3		
© G. 45.01E 10 3		
Your answer is correct.		
The correct answer is:		
45.612 * 10^3		

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Question 9
Correct
Mark 1.00 out of 1.00
What will be the 8-bit two's complement representation for -124 ₁₀ ?
Answer: 10000100 ✓
TI 40000400
The correct answer is: 10000100
Question 10
Correct
Mark 1.00 out of 1.00
Can we say that the 8-bit ASCII representation of the digit '7' is 00110111 ₂ , considering the following interaction with the Python
interpreter?
>>> ord('1')
49
>>> ord('8')
56
O a. No
o a. No
Your answer is correct.
The correct answer is:
Yes
■ Lecture 7 Slides and Recordings
- Lecture 7 Shaes and Necordings
Jump to

Forum on this week's lecture and quiz -