Answer Key: -2.0625

Part 11 of 11 / 4.0 Points

In this question, you are provided with two <u>unsigned</u> binary numbers, A and B.

You are asked to evaluate (-A - B) as well as (-A + B) using the <u>two's complement 12-bit number system</u>.

If the result is encoded in <u>less</u> than 12 bits (including the sign bit), you need to extend it to fill the entire 12 bits.

If your answer is less than 12 bits or more than 12 bits, you will get zero.

Indicate if an overflow occurred or not.

N.B.: You need to provide the entire 12-bit result, even if an overflow occurs.

You MUST report the answer in 2's complement.

Do *NOT* convert the number back from the 2's complement. Leave it in the 2's complement representation.

Question 11 of 12	2.0 Points
When A = 10001110001 and B = 110011101,	
the value of (-A - B) = \checkmark 100111110010, If yes, if not type no \checkmark yes; and	an overflow occurred during evaluating this expression, type
the value of (-A + B) = \checkmark 110100101100 , If an overflow occurred during evaluating this expression, type yes, if not type no \checkmark no	
Answer Key: 100111110010, N NO No no, 110100101100, N NO No no	
Question 12 of 12	2.0 Points
When A = 10111101011 and B = 10100010000,	
the value of (-A - B) = \bigstar 10100000101, If a yes, if not type no \bigstar no; and	an overflow occurred during evaluating this expression, type
the value of $(-A + B) = $ $\stackrel{\textstyle \checkmark}{}$ $\frac{11100100101}{11100100101}$, If a yes, if not type no $\stackrel{\textstyle \checkmark}{}$ $\frac{1}{11100100101}$	an overflow occurred during evaluating this expression, type

Answer Key: 010100000101, Y|Yes|yes|YES, 111100100101, N|NO|No|no