Quiz 8
(12 points)

1. Suppose we have declared these items:

BYTE1   DS   B
BYTE2   DC   B'10011001'
BYTE3   DC   B'00010001'
BYTE4   DS   B

(a) (2 points) Suppose I execute this instruction:

    NI     BYTE2,B'11000110'

What value is now in BYTE2?

(b) (2 points) Suppose I execute this instruction:

    XC     BYTE3(1),=B'00001111'

What value is now in BYTE3?

(c) (2 points) I want to set the third bit of BYTE1 to 0 without changing any of its other bits. How can I do this? (Think about the available operations.)

(d) (2 points) I want to set the second and fifth bits of BYTE4 to 1 without changing any of its other bits. How can I do this? (Think about the available operations.)
2. (2 points) Suppose register 7 contains the value X'A7B93F02'. In binary, this is:

B'1010 0111 1011 0011 1111 0000 0010'. (I have put in spaces to make it easier to read.)

What value will be in register 7 after we execute the following instruction? Write the answer in hexadecimal digits.

SRA 7,1

Register 7: __ __ __ __ __ __ __

3. (2 points) Suppose register 4 contains the value X'A59BF1C5'. In binary, this is:

B'1010 0101 1001 1111 0001 1100 0101'. (I have put in spaces to make it easier to read.)

What value will be in register 4 after we execute the following instruction? Write the answer in hexadecimal digits.

SLL 4,2

Register 4: __ __ __ __ __ __ __