CS 429 Quiz 1: February 5, 2018

Name/EID:	
Note that this quiz has two sides.	
1. (12 points: 2 points each) Perform the following oper	ations or conversions.
(a) $0x503c - 0x40$ (result in hex):	
(b) Hex 0xbc06 to binary:	
(c) Decimal 53 to little-endian hex (show 4 bytes):	
(d) 01101001 ^ 01010101 (binary):	
(e) 01101001 & 01010101 (binary):	
(f) Decimal value of unsigned 0xffffffff: (an expression is OK)	
2. (2 points) Given a value x, show how to compute 41	x using only shifts and adds

CS429: Quiz 1 2

3.	(6 points total: 2 points each)	Write a single	C expressions	(not a series	of state-
	ments), in terms of the 32-bit	variables x and	y, to compute	a value that	is:

(a) identical to x, except that the most significant byte is set to 0xFF:

(b) has as its least significant (LS) byte the LS byte of y, but all other bytes are the corresponding bytes of x:

(c) is the (bitwise) complement of the exclusive or of x with y: