CS 163 Discrete Math	Fall 2019
http://neilklingensmith.com/teaching/loyola/cs163/	
Quiz 3	
Date: September 19, 2019	

Name:

- 1. (25 points) Binary addition
 - (a) (20 points) Compute the following longhand **binary** addition. Also convert each addend and the result to hex in the box to the right. Show your carries on the binary side.

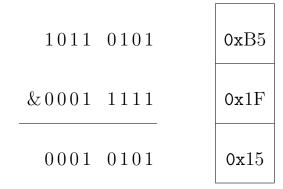
1011	0111	0xB7
+0101	0001	0x51
10000	1000	0x108

Solution: 1 0000 1000

(b) (5 points) Does the sum fit in an 8-bit register?

Solution: No, the sum is 9 bits long, so it can't fit in an 8-bit register.

2. (15 points) Compute the following bitwise logical AND. Also convert each input and the result to hex in the box to the right.



Solution: 0001 0101