

Question 3

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0 = 0000

1 = 0001

2 = 0010

3 = 0011

4 = 0100

5 = 0101

6 = 0110

7 = 0111

8 = 1000

9 = 1001

A = 1010

B = 1011

C = 1100

D = 1101

E = 1110

F = 1111

10110111 in decimal = 183

in hex = B7

1 + 2 + 4 + 16 + 32 + 128

10101001 in decimal = 169

in hex = A9

1 + 8 + 32 + 128

AND 10110111
 10101001
 10100001

OR 10110111
 10101001
 10111111

XOR 10110111
 10101001
 00011110