Deadline: 13/10/15

1. Convert the following numbers to sixteen bit one’s complement binary numbers:   
(a)  3250010  
(b)  -1234510  
(c)  -210  
  
2. Convert the following numbers to eight bit two’s complement binary numbers:  
(a)  12010  
(b)  -1210  
(c)  -12010

3. Convert the following eight-bit one's complement numbers to decimal:  
  
(a)    101010101’s  
  
(b)   010000101’s  
  
(c)    111111111’s  
  
4. Convert the following eight-bit two's complement numbers to decimal:   
  
(a)    010101012’s  
  
(b)   101111002’s  
  
(c)    111111112’s  
  
5. Perform the following subtractions using 12 bit one’s and two’s complement. All numbers are in base 10.  
  
(a)  525-321  
  
(b)  753-864  
  
(c)  20-100  
  
(d)  35-210

**End of chapter problems from Morris Manno Chapter 1**

1-8 (assume 12 bit 1's/2's complement system being used and assume that all numbers are negative)

1-12 (assume 6 bit 1's/2's complement system in being used)

1-15

**End of the chapter problems from Wakerly, Chapter 2**

2.11, 2.12, 2.15, 2.16