Homework 2  
ELE 413

Q1) From a memory location starting at 2030h, 100 signed data are fetched and checked. Write a program (include comments) below to find: How many of these data are negative numbers less than FAh and also D2 bit 0 then display the result at port 20h after the program terminates.

Q2) Complete the following code to check the Auxilary Carry (AC) in the space provided after the following code as a result of addition. If AC is set as the result of addition go to label Back: otherwise go to a label End: (don't worry about where these labels actually are). Do not use any PUSH or POP statements!. Your solution should be very much dependent on the code given below.

Back: LXI H, 2000H  
MOV A,M  
ADI FFH

;write your code starting here, nothing above this line

;you are allowed to change the contents of the registers; MAXIMUM 5 more lines of code below!