hw9

Q1. Using the format of Figure 10.6, please draw the stack usage procedure during the computation of (51-49)*(172+205)-(17*2). The stack pointer is x4000 initially. Hint: you may refer the whole process sequence in Page 396 of textbook.

x3FFB	_	-		
x3FFC	-	_		
x3FFD	-	-		
x3FFE	-	-		
x3FFF	_	51		
SP	x4000	x3FFF		

Q2. There is a 4-dimensional array A[M,N,P,Q], in which M=3, N=5, P=7, Q=9. Each element is a 16-bit integer and stored sequentially in LC-3's memory. The first element A[0,0,0,0] is stored at address x4000. The access way of this 4D array can be describe in C like:

What's the address of A[2,4,3,5]? Also show the calculation procedure of your answer.