



Computer Organization and Assembly Language

Lab 7

Topic	1. Stack operations
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PART 2

Question #1:

Write a program which copy the 10 elements of word size from one array to another. Elements which are greater than 25,600 (unsigned decimal) must be discarded. Read the first array on stack and then copy the values from stack to another array keeping in view the above-mentioned criteria.

Index	0	1	2	3	4	5	6	7	8	9
Value	0xAB00	0X1200	0XEF00	0X6500	0X5A00	0X7700	0X7F00	0X6400	0X3F00	0X0900

After execution your array should be:

Index	0	1	2	3	4	5	6	7	8	9
Value	0	0X1200	0	0	0X5A00	0	0	0X6400	0X3F00	0X0900

Question #2:

Write a subroutine which acts as an INTERSECTION operation between two arrays and save the result in the third array.

Let array 1:

Index	0	1	2	3	4	5	6	7	8	9
Value	0XE5	0X12	0XDD	0XAB	0X5A	0XC3	0X4A	0X46	0X76	0X87

Let array 2:

Index	0	1	2	3	4	5	6	7	8	9
Value	0XAB	0X12	0XDD	0XCD	0X5A	0XC3	0X4A	0X65	0X76	0XEE



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Then third array should be:

Index	0	1	2	3	4	5	6	7	8	9
Value	0X12	0XDD	0X5A	0XC3	0X4A	0X76	0	0	0	0