

# COS 3249 WEB PAGE

Assignment # 2 due WED. MARCH 30, 2011

a. Download "MARIE" INFORMATION, PROGRAM, AND INSTRUCTION PAMPHLETS FROM WEBSITE ON P. Xvii of the text.

b. MODIFY BAUER'S PRINT.MAS ROUTINE (SCAN ATTACHED) INTO A SUBROUTINE WHICH WILL PRINT AN ARRAY OF 20 NUMERICAL VALUES. SUBMIT ASSEMBLED CODE AND SAMPLE OUTPUT.

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Assignment # 3 due Monday APR. 4, APR 2011

WRITE AND DEBUG A "BUBBLE SORT" ROUTINE TO DO AN ASCENDING SORT OF AN ARRAY OF 20 NUMERICAL VALUES.

SUBMIT ASSEMBLED CODE AND SAMPLE OUTPUT

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Assignment # 4 due Wed. APR 2011.

~~WRITE~~ MERGE YOUR PROGRAMS FROM 2 AND 3 ABOVE INTO A PACKAGE WHICH WILL PRINT AN UNSORTED ARRAY, SORT IT FROM LOW TO HIGH, AND THEN PRINT OUT THE SORTED ARRAY. SUBMIT ASSEMBLED CODE AND SAMPLE OUTPUT

Ref. For Assignment 2 |

PRINT.MAS

```
org 100
load data
store X
step, clear
addi X
output
load X
add one
store X
subt last
skipcond 0000
halt
```

```
data, jump step
one, hex 110
X, dec 1
last, dec 0
hex 129
```

msg, hex 45  
hex 76  
~~68~~ 65

72
79
20
4c
69
74
74
6c
65
20
42
69
74
20
43
6f
75
6e
74
73
07
hex 07

Note: msg array runs from 110 hex to 129 hex