Peer Instruction \#7:
LC-3 Assembly Language (continued)
A. JMP R7
B. RET
C. Both of the above
D. None of the above


# Translate ADD R0,R1,\#-16 from assembly code into an LC-3 instruction in hexadecimal: 

A. $0 \times 1040$
B. $0 \times 106 \mathrm{~F}$
C. $0 \times 1070$
D. $0 \times 107 \mathrm{~F}$
E. Cannot be done!

# Which instruction branches to Main if RO is less than or equal to 12 ? 

Twelve .FILL x000C Main NOT R1,R1<br>ADD R1,R1,1 ADD R0,R0,R1 ??? Main<br>A. BRn<br>B. BRz<br>C. BRp<br>D. BRnz<br>E. BRzp

What are the values in $\mathrm{R} 0, \mathrm{R} 1, \mathrm{R} 2$ after the code below executes? Assume the Main label is at address x3000.

Main LD R0,Data<br>LEA R1,Data<br>LDR R2,R1,0 HALT<br>Data .FILL 0x4321<br>A. $x 4321, x 3003, x 7324$<br>B. $x 4321, x 3004, x 7324$<br>C. $x 4321, x 3003, x 4321$<br>D. $x 4321, x 3004$, x4321<br>E. None of the above

Array .FILL x1133
.FILL x2244
.FILL x3355
Main NOT R1,R1
LEA R2,Array
LDR R0,R2,2
LDR R0,R2,3
HALT
A. $\mathrm{x} 1133, \mathrm{x} 2244$
B. $x 2244, \times 3355$
C. $x 3355, x 903 F$
D. $x 3355, \times 927 \mathrm{~F}$
E. None of the above

Data0 .FILL x1234

Data1 .FILL x2345
Data2 .BLKW 1
Main LD R1,Data0
LD R2, Data1 ADD R3,R2,R1 ST R3,Data2
A. Ob111111011
B. Ob111111100
C. Ob111111101
D. Ob100000100
E. Ob100000101

