```
;Lab#7: More LC-3 ML Data Movement Instructions
;example 1
;Zane Wonsey
;11-4-13

0011 0000 0101 0000     ;load program here
0101 000 000 1 00000    ;clear R0
0101 001 000 1 00000    ;clear R1
0101 010 000 1 00000    ;clear R2
1110 001 0 1010 1100    ;LEA to get base register
0001 010 001 1 00000    ;set R2 == R1

0110 000 001 000000     ;load value at R1 + offset into R0
0111 000 010 010011     ;store from R0 using R2 offset
0101 000 000 1 00000    ;clear R0
0001 001 001 1 00001    ; R1 + 1
0001 010 010 1 11111    ; R2 - 1

0110 000 001 000000     ;load value at R1 + offset into R0
0111 000 010 010011     ;store from R0 using R2 offset
0101 000 000 1 00000    ;clear R0
0001 001 001 1 00001    ; R1 + 1
0001 010 010 1 11111    ; R2 - 1

0110 000 001 000000     ;load value at R1 + offset into R0
0111 000 010 010011     ;store from R0 using R2 offset
0101 000 000 1 00000    ;clear R0
0001 001 001 1 00001    ; R1 + 1
0001 010 010 1 11111    ; R2 - 1

0110 000 001 000000     ;load value at R1 + offset into R0
0111 000 010 010011     ;store from R0 using R2 offset
```

10/10

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;Lab#7: More LC-3 ML Data Movement Instructions
;example 2
;Zane Wonsey
;11-4-13

0011 0000 0101 0000   ;load program here
0101 000 000 1 00000  ;clear R0
0101 001 000 1 00000  ;clear R1
0101 010 000 1 00000  ;clear R2
0101 011 000 1 00000  ;clear R3

1010 000 0 1100 1011  ;load 3100 using 3120
1010 001 0 1100 1011  ;load 3101 using 3121
1010 010 0 1100 1011  ;load 3102 using 3122
1010 011 0 1100 1011  ;load 3103 using 3123

1011 011 0 1100 1011  ;store 3103 using 3124
1011 010 0 1100 1011  ;store 3102 using 3125
1011 001 0 1100 1011  ;store 3101 using 3126
1011 000 0 1100 1011  ;store 3100 using 3127
```

10/10