```
;load program into x3000
0011 0000 0000 0000

;Lab #5 LC-3 ML Operate Instructions
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;Date: 10 - 21 - 2013

;#1   store xFFFF into R0
0101 000 000 1 00000        ;clear
0001 000 000 1 11111        ;store value

;#2   add 42 to current R2
0001 010 010 1 01111        ;add 15
0001 010 010 1 01111        ;add 15
0001 010 010 1 01100        ;add 12

;#3   subtract R5 from R4 and store into R3
1001 101 101 111111         ;NOT R5 to make it negative
0001 101 101 1 00001        ;add 1 to R5 to make value right
0001 011 100 0 00101        ;add R4 and R5

;#4   set Z condition code to 1 if contents of R6 is even
0101 110 110 1 00001        ;AND R6

;#5   set N condition code to 1 if contents of R7 is negative
1001 111 111 111111
1001 111 111 111111
```