

$$\begin{aligned} O_p1 &= +3 \\ O_p2 &= -7 \end{aligned}$$

w.cycle  
0001 Blank  
0010 Operand1  
0100 Operand2  
1000 Result

0..sel  
An  
0111 Sign Digit  
1011 Hundreds Digit  
1101 Tens Digit  
1110 Ones Digit

How to Blank a Digit?  
 $\rightarrow 1111 \rightarrow An$

Positive sign  $\rightarrow$  Blank  $\rightarrow$  "1111"  $\rightarrow$  Cathode  
Negative sign  $\rightarrow$  "0000"  $\rightarrow$  Cathode

-7 8bit 2's Comp?

$$\begin{array}{r} 0000\ 0111 = 7 \\ 1111\ 1000 \\ +1 \\ \hline 1111\ 1001 \end{array}$$

flip bits  
add one  
↓ switches

