

1. Obtain the 2s complements.

(1) 11001001

$\Rightarrow 00110111$

(4) 1111001

$\Rightarrow 00001111$

(2) 01100011

$\Rightarrow 10011101$

(5) 01000001

$\Rightarrow 10111111$

(3) 01010111

$\Rightarrow 10101001$

2. Perform the arithmetic operation

(1)  $(+25) - (50)$

$= 0011011 - 0110010$

$= 0011011 + 1001110$

$= 1101001$

$= -0010111$

$= -23$

(2)  $(-42) - (30)$

$= -0101010 - 0011110$

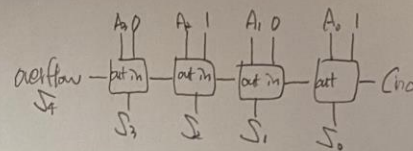
$= 1010110 + 1100010$

$= 0110000$

$= -1001000$

$= -72$

3.  $S = A + 0101$



4. A와 B를 곱함  $\rightarrow$  B가 A보다 큰지 확인

Output X가 1이면  $A < B$

X가 0이면  $A \geq B$

$A = A_3A_2A_1A_0$ ,  $B = B_3B_2B_1B_0$

A	B	Z
0	0	0
0	1	1
1	0	0
1	1	0

