

$$X = -53$$

$$Y = +42$$

$$P = \begin{array}{r} 106 \\ 212 \\ -2226 \end{array} \checkmark$$

$$X = 10110101_{SM} \\ = 11001011_{C2}$$

$$Y = 00101010_{C2}$$

$$Y = 000101010 \\ -Y = 111010110$$

$$2Y = 001010100 \\ -2Y = 110101100$$

$$\begin{array}{r} 53- \\ 32 \\ \hline 21- \\ 16 \\ \hline =5 \end{array}$$

count	A	Q	Q-1	M
00 +	$\begin{array}{r} 0000000000 \\ 111010110 \\ \hline 111010110 \\ 111110101 \end{array}$	$\begin{array}{r} 11001011 \\ \hline 10110010 \end{array}$	$\begin{array}{c} 0 \\ -M \\ 1 \end{array}$	00101010
01 +	$\begin{array}{r} 111010110 \\ 1110001011 \\ 1111100010 \end{array}$	$\begin{array}{r} 11101100 \\ \hline 11101100 \end{array}$	$\begin{array}{c} -M \\ 1 \end{array}$	
10 +	$\begin{array}{r} 000101010 \\ 000011100 \\ 0000000111 \end{array}$	$\begin{array}{r} 00111011 \\ \hline 00111011 \end{array}$	$\begin{array}{c} +M \\ 0 \end{array}$	
11 +	$\begin{array}{r} 111010110 \\ 111011101 \\ 111110111 \end{array}$	$\begin{array}{r} 01001110 \\ \hline 01001110 \end{array}$	$\begin{array}{c} -M \\ 1 \end{array}$	

000 - 0  
 001 - 1  
 010 - 1  
 011 - 2  
 100 - 2  
 101 - 1  
 110 - 1  
 111 - 0

$$\begin{array}{r} 1111011101001101_{C1} \\ \downarrow \\ 1000100010110010_{SM} \end{array}$$

$$\begin{array}{r} 18+ \\ 32 \\ \hline 50 \\ 128 \\ 2048 \\ \hline -2226 \end{array} \checkmark$$