$n = 8$

x_{n-1}	y_{n-1}	c_{n-1}	z_{n-1}	c_n	OVR
0	0	0	0	0	0
0	0	1	1	0	1
0	1	0	1	0	0
0	1	1	0	1	0
1	0	0	1	0	0
1	0	1	0	1	0
1	1	0	0	1	1
1	1	1	1	1	0

$$OVR = c_{n-1} \oplus c_n$$

$$(-1)^{S_1} \times M_1 \times 2^{E_1}$$

$$(-1)^{S_1 \oplus S_2} \times (M_1 \times M_2) \times 2^{E_1+E_2}$$

a_{i+1}	x_i	R	OP	R^*
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	0	0
1	0	1	$\bar{1}$	1
1	1	0	$\bar{1}$	1
1	1	1	0	1

trans.

isolated

$a_{i+1}\ x_i\ x_{i-1}$

1×2^i

$+1 \times 2^{i-1}$

$-1 \times 2^i + 1 \times 2^{i+1} = 2^i(-1+2) = 2^i \times 1 \equiv 1$

$+1 \times 2^i + 1 \times 2^{i+1} = 2^i(-2+1) = -2^i \equiv \bar{1}$

0 0 1 0 0 1 0 0 0

0 0 1 0 1 1 0 0 0

0 0 1 1

0 0 1 1 ... 1

$X = 1010\ 1010_{C2}$

$1010\ 1001_{C1}$

$1101\ 0110_{SM}$

$64 + 22 = 86$

$Y = 1000\ 0011_{SM}$

$1000\ 0010_{C1}$

$1111\ 1101_{SM}$

-125

$127 - 2 = 125$

$125 \times 86 = 750$

$1000 + 750 = 10750$

$-M = 0111\ 1101$

$4096 \times$

$2^9 - 1 = 511$

$510 + 2048 + 8192 = 10750$ ✓

COUNT	OVR	A	Q[3]	Q	R	T1
000	0	0000 0000	1	1010 1010	0	1000 0011
		0000 0000	0	1101 0101	0	
001	+	1000 0011				
	0	1000 0011				
		1100 0001	1	0110 1010	0	
010	0	1110 0000	1	1011 0101	0	
011	+	1000 0011				
	1	0110 0011				
		1011 0001	1	1101 1010	0	
100	0	1101 1000	1	1110 1101	0	
101	+	1000 0011				
	1	0101 1011				
		1010 1101	1	1111 0110	0	
110	0	1010 1101	1	1111 1011	0	
111	+	0111 1101				
	0	0101 0011				1
		0010 1001	1	1111 1101	1	

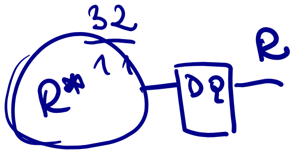
X = -107

Y = +79

00 0
01 1
10 1
11 0

107 -
64
43
32

79 -
64
15



-M = 1011 0001

$R^* = \overline{Q[1]} \cdot Q[0] + Q[1] \cdot \overline{R} + \overline{Q[0]} \cdot R$

107 ×
79
963
749
-8453

2048
4096
8192

$X = 1110\ 1011_{SM}$

$= 1001\ 0101_{C2}$

$Y = 0100\ 1111_{SM, C1, C2}$

$x_{i+1}\ x_i$

count	OVR	A	Q[8]	Q	R	M
000	0	0000 0000	1	1001 0101	0	0100 1111
	+	0100 1111				
	0	0100 1111			0	
		0010 0111	1	1100 1010	0	0100 1111
001	0	0001 0011	1	1110 0101	0	
010	+	0100 1111				
	0	0110 0010			0	
		0011 0001	0	1111 0010	0	
011	0	0001 1000	1	0111 1001	0	
100	+	0100 1111				
	0	0110 0111			0	
		0011 0011	1	1011 1100		
101	0	0001 1001	1	1101 1110	0	
110	0	0000 1100	1	1110 1111	0	
111	+	1011 0001				
	0	1011 1101			1	
		1101 1110	1	1111 0111 (C2)		
		1101 1110	1	$1111\ 010_{C1}$		

$1010\ 0001\ 0\ 0000\ 101_{SM}$

5
256
8192
-8453

cout

0

1 = C_7

0101 0110 +
0100 0111
1001 1101

1
0
1010 1110 +
1000 0101
0011 0011

0110 1101 +
1101 1000
1
0100 0101