```
ln[\circ] := C1 = (X0 && Y0) | | (X0 \sum Y0) && C0
Out[\sigma]= (X0 && Y0) | | ((X0 \vee Y0) && C0)
 ln[*]:= C2 = (X1 \&\& Y1) \mid | (X1 \veebar Y1) \&\& C1
Out[\sigma] = (X1 \&\& Y1) \mid ((X1 \veebar Y1) \&\& ((X0 \&\& Y0)) \mid ((X0 \veebar Y0) \&\& C0)))
 ln[\circ] := C3 = (X2 \&\& Y2) \mid | (X2 \lor Y2) \&\& C2
\textit{Out} = \{(X2 \&\& Y2) \mid ((X2 \lor Y2) \&\& ((X1 \&\& Y1) \mid ((X1 \lor Y1) \&\& ((X0 \&\& Y0) \mid ((X0 \lor Y0) \&\& C0))))\}
 ln[\circ]:= C4 = (X3 \&\& Y3) | | (X3 <math>\veebar Y3) \&\& C3
\textit{Out} = \{(X3 \&\& Y3) \mid ((X3 \veebar Y3) \&\& ((X2 \&\& Y2) \mid ((X2 \veebar Y2) \&\& ((X1 \&\& Y1) \mid ((X1 \veebar Y1) \&\& ((X0 \&\& Y0) \mid ((X0 \veebar Y0) \&\& C0)))))))\}
 In[*]:= S0 = X0 ⊻ Y0 ⊻ C0
Out[*]= C0 ⊻ X0 ⊻ Y0
 In[ • ]:= S1 = X1 ⊻ Y1 ⊻ C1
Out[\circ]= X1 \vee Y1 \vee ( (X0 && Y0) | | ((X0 \vee Y0) && C0))
 Inf ∘ l:= S2 = X2 ∨ Y2 ∨ C2
Outf \circ \models X2 \lor Y2 \lor ((X1 \&\& Y1)) \mid ((X1 \lor Y1) \&\& ((X0 \&\& Y0)) \mid ((X0 \lor Y0) \&\& C0))))
 Inf • l:= S3 = X3 ⊻ Y3 ⊻ C3
In[*]:= Overflow1 = (! X3 && ! Y3 && S3) || (X3 && Y3 && ! S3)
\textit{Out} = \texttt{P} 
                             (X3 \&\& Y3 \&\& : (X3 \veebar Y3 \veebar ((X2 \&\& Y2) \mid | ((X2 \veebar Y2) \&\& ((X1 \&\& Y1) \mid | ((X1 \veebar Y1) \&\& ((X0 \&\& Y0) \mid | ((X0 \veebar Y0) \&\& C0))))))))))) )
 In[*]:= Overflow2 = C4 \(\subseteq\) C3
Outf = \{(X2 \& Y2) \mid | ((X2 \veebar Y2) \& \& ((X1 \& Y1) \mid | ((X1 \veebar Y1) \& \& ((X0 \& Y0) \mid | ((X0 \veebar Y0) \& \& C0))))))) \} 
                            ((X3 \&\& Y3) \mid | ((X3 \lor Y3) \&\& ((X2 \&\& Y2) \mid | ((X2 \lor Y2) \&\& ((X1 \&\& Y1) \mid | ((X1 \lor Y1) \&\& ((X0 \&\& Y0) \mid | ((X0 \lor Y0) \&\& C0))))))))))
```

```
Import | BooleanMinimize | Overflow1 | == BooleanMinimize | Overflow2 |
            최소화 부울
                                                                                    최소화 부울
Out[*]= True
 Info := Zero = ! S3 && ! S2 && ! S1 && ! S0
\bigcirc (X3 \veebar Y3 \veebar (X2 \& Y2) \mid ((X2 \veebar Y2) \& \& ((X1 \& Y1) \mid ((X1 \veebar Y1) \& \& ((X0 \& Y0) \mid ((X0 \veebar Y0) \& \& (0))))))) \& \& ((X1 \& Y1) \& \& ((X0 \& Y0) \mid ((X0 \veebar Y0) \& \& (0))))))) \& \& ((X1 \& Y1) \& ((X1 \& Y1) \& \& ((X1 \& Y1) \& ((X1 \& Y1)
               !\;(X2 \veebar Y2 \veebar ((X1 \&\& Y1) \mid |\; ((X1 \veebar Y1) \&\& ((X0 \&\& Y0) \mid |\; ((X0 \veebar Y0) \&\& C0))))) \&\& \; !\; (X1 \veebar Y1 \veebar ((X0 \&\& Y0) \mid |\; ((X0 \veebar Y0) \&\& C0))) \&\& \; !\; (C0 \veebar X0 \veebar Y0)))))
 Info i:= NegativeFlag = S3
Out_{f} = X3 \lor Y3 \lor ((X2 \& Y2) | | ((X2 \lor Y2) \& ((X1 \& Y1) | | ((X1 \lor Y1) \& ((X0 \& Y0) | | ((X0 \lor Y0) \& (C0)))))))
 ln|e|= Convert2Param[x , y , cc ] := {X3 -> StringTake[x, {1, 1}] == "1", X2 -> StringTake[x, {2, 2}] == "1",
                                                                                                     문자열의 부분 추출
                                                                                                                                                                                          문자열의 부분 추출
                 X1 -> StringTake[x, {3, 3}] == "1", X0 -> StringTake[x, {4, 4}] == "1", Y3 -> StringTake[y, {1, 1}] == "1",
                               문자열의 부분 추출
                                                                                                                   문자열의 부분 추출
                                                                                                                                                                                                       문자열의 부분 추출
                 Y2 -> StringTake[y, {2, 2}] == "1", Y1 -> StringTake[y, {3, 3}] == "1", Y0 -> StringTake[y, {4, 4}] == "1", C0 → cc == "1"}
                               문자열의 부분 추출
                                                                                                                  문자열의 부분 추출
                                                                                                                                                                                                        문자열의 부분 추출
             {"0000", "0001", "0010", "0011", "0100", "0101", "0110", "0111", "1000", "1001", "1010", "1011", "1100", "1101", "1111"}
            BinaryToDecTable = \{0, 1, 2, 3, 4, 5, 6, 7, -8, -7, -6, -5, -4, -3, -2, -1\}
 Infe = ToBinaryString[i ] := StringPadLeft[IntegerString[i, 2], 4, "0"]
                                                                  왼쪽 패딩 문자열 정수 문자열
 ln[v] = NormalizeBinaryDec[v] := If[v > 7, v - 16, If[v < -8, v + 16, v]]
                                                                            만약
 In[*]:= GetExprValue[EXPR , X , Y ] := (EXPR /. Convert2Param[ToBinaryString[X], ToBinaryString[Y], "0"])
 In[*]:= ToExprString[X , Y ] := ToString[GetExprValue[X, Y]]
                                                                       문자열하기
 n[*]:= ToExprFullString[X_, Y_] := ToBinaryString[X] <> "(" <> ToString[BinaryToDecTable[[X + 1]]] <> ")" <> "+" <> ToBinaryString[Y] <> "(" <>
                                                                                                                                                   문자열하기
                  ToString[BinaryToDecTable[[Y + 1]]] <> ")" <> "=" <> ToString[NormalizeBinaryDec[BinaryToDecTable[[X + 1]] + BinaryToDecTable[[Y + 1]]]]
                 문자열하기
```

```
In[*]:= SmartBlend[list_] := If[Length[list] == 0, White, If[Length[list] == 1, list[[1]], Blend[list]]]
                        ... 길이
                                           흰색 ... 길이
    Grid[Table[Item[ToExprFullString[X, Y],
    격자 목록… 항목
       {Background → SmartBlend[{If[GetExprValue[Overflow1, X, Y], Blue, Nothing], If[GetExprValue[Zero, X, Y], Green, Nothing],
                                                                 파랑 자동 삭제되… 만약
                                                                                                            녹색 자동 삭제되는 요
           If[GetExprValue[NegativeFlag, X, Y], Red, Nothing]\}]\}], \{X, 0, 16-1\}, \{Y, 0, 16-1\}], Frame \rightarrow All]
           만약
                                               빨강 지동 삭제되는 요소
                                                                                             테투리 모든
m[*]= Grid[Table[Item[ToExprFullString[X, Y], {Background → If[GetExprValue[Overflow1, X, Y], Red, White]}], {X, 0, 16 - 1}, {Y, 0, 16 - 1}],
    격자 목록… 항목
                                            배경
                                                        만약
                                                                                        빨강 흰색
     Frame → All]
     테투리 모든
```

0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000(0
) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
0	1	2	3	4	5	6	7	=-8	=-7	=-6	=-5	=-4	=-3	=-2	=-1
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) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
1	2	3	4	5	6	7	-8	=-7	=-6	=-5	=-4	=-3	=-2	=-1	=0
0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010(2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010(2
) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
<b>(0)</b> =	(1) =	(2) =	(3) =	(4) =	(5) =	(6)=	(7) =	(8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
2	3	4	5	6	7	-8	-7	=-6	=-5	=-4	=-3	=-2	=-1	=0	=1

_		L	Į								1	1				1
	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011(3	0011 (3	0011 (3	0011 (3	0011(3	0011 (3	0011 (3	0011 (3
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
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	(0) =	(1) =	(2) =	(3) =	(4) =	(5)=	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	3	4	5	6	7	-8	-7	-6	=-5	=-4	=-3	=-2	=-1	=0	=1	=2
	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	<b>(1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6)=	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	4	5	6	7	-8	-7	-6	-5	=-4	=-3	=-2	=-1	=0	=1	=2	=3
	0101 (5	0101 (5	0101 (5	0101(5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	<b>(1</b> ) =	(2) =	(3) =	(4) =	(5)=	(6)=	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	5	6	7	-8	-7	-6	-5	-4	=-3	=-2	=-1	=0	=1	=2	=3	=4
	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
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	(0) =	<b>(1</b> ) =	(2) =	(3)=	(4) =	(5)=	(6)=	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	6	7	-8	-7	-6	-5	-4	-3	=-2	=-1	=0	=1	=2	=3	=4	=5
	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	<b>(0)</b> =	(1) =	(2) =	(3) =	(4) =	(5) =	(6)=	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
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	(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	-8	-7	-6	-5	-4	-3	-2	-1	=0	=1	=2	=3	=4	=5	=6	=7

Out[@]=

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							_				1011	1100			1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-7	-6	-5	-4	-3	-2	-1	0	=1	=2	=3	=4	=5	=6	=7	=-8
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6) +	6)+	6) +	6)+	6) +	6)+	6)+	6)+	6)+	6)+	6)+	6)+	6)+	6)+	6) +	6)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	( <b>1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-6	-5	-4	-3	-2	-1	0	1	=2	=3	=4	=5	=6	=7	=-8	=-7
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5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-5	-4	-3	-2	-1	0	1	2	=3	=4	=5	=6	=7	=-8	=-7	=-6
1100 ( –	1100 ( –	1100 ( –	1100 ( –	1100 ( –	1100 ( –	1100 ( –	1100 ( –	1100 ( -	1100 ( –	1100 ( -	1100 ( -	1100 ( –	1100 ( –	1100 ( –	1100 ( -
4)+	<b>4</b> ) +	4) +	4) +	4) +	4)+	4) +	4) +	4) +	4) +	4) +	4)+	4) +	4)+	4)+	4)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	<b>(1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-4	-3	-2	-1	0	1	2	3	=4	=5	=6	=7	=-8	=-7	=-6	=-5
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3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-3	-2	-1	0	1	2	3	4	=5	=6	=7	=-8	=-7	=-6	=-5	=-4
1110 ( –	1110 ( –	1110 ( -	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( -	1110 (-	1110 ( –	1110 ( –	1110 ( -	1110 ( –	1110 ( –	1110 ( –
2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	( <b>1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-2	-1	0	1	2	3	4	5	=6	=7	=-8	=-7	=-6	=-5	=-4	=-3

1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( -	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –
1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-1	0	1	2	3	4	5	6	=7	=-8	=-7	=-6	=-5	=-4	=-3	=-2

*ln[\*]:*= **Grid**[

격자

 $Table[Item[ToExprFullString[X, Y], \{Background \rightarrow If[GetExprValue[Zero, X, Y], Green, White]\}], \{X, 0, 16-1\}, \{Y, 0, 16-1\}], Frame \rightarrow All]$ 목록… | 항목 만약 배경 녹색 흰색

0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000(0
) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	<b>(1)</b> =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
0	1	2	3	4	5	6	7	=-8	=-7	=-6	=-5	=-4	=-3	=-2	=-1
0001 (1	0001(1	0001(1	0001 (1	0001(1	0001 (1	0001 (1	0001 (1	0001 (1	0001 (1	0001 (1	0001 (1	0001(1	0001(1	0001(1	0001(1
) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
1	2	3	4	5	6	7	-8	=-7	=-6	=-5	=-4	=-3	=-2	=-1	=0
0010 (2	0010 (2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2
				,	,	,	,	(	( -	(	(	(-	00-0 (-	00-0 (-	-
) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
) + 0000	) + 0001	) + 0010	) + <b>0011</b>	,	) + <b>0101</b>	) + <b>0110</b>	) + <b>0111</b>	,	,	,	,	,	,		,
,	′	′	/	) +	· /	,	· /	) +	) +	) +	) +	) +	) +	) +	) +
0000	0001	0010	0011	) + <b>0100</b>	0101	0110	0111	) + 1000	) + 1001	) + 1010	) + 1011	) + 1100	) + <b>1101</b>	) + 1110	) + <b>1111</b>
0000 (0) =	0001 (1) =	0010 (2) =	0011 (3) =	) + <b>0100</b> (4) =	0101 (5) =	0110 (6) =	0111 (7) =	) + 1000 (-8)	) + <b>1001</b> (-7)	) + 1010 (-6)	) + 1011 (-5)	) + 1100 (-4)	) + 1101 (-3)	) + 1110 (-2)	) + 1111 (-1)
0000 (0) = 2	0001 (1) = 3	0010 (2) = 4	0011 (3) = 5	) + <b>0100</b> (4) = 6	0101 (5) = 7	0110 (6) = -8	0111 (7) = -7	) + 1000 (-8) =-6	) + 1001 (-7) =-5	) + 1010 (-6) =-4	) + 1011 (-5) =-3	) + 1100 (-4) =-2	) + 1101 (-3) =-1	) + 1110 (-2) =0	) + 1111 (-1) =1
0000 (0) = 2 0011(3	0001 (1) = 3 0011(3	0010 (2) = 4 0011(3	0011 (3) = 5 0011(3	) + 0100 (4) = 6 0011(3	0101 (5) = 7 0011(3	0110 (6) = -8 0011(3	0111 (7) = -7 0011(3	) + 1000 (-8) =-6 0011(3	) + 1001 (-7) =-5 0011(3	) + 1010 (-6) =-4 0011(3	) + 1011 (-5) =-3 0011(3	) + 1100 (-4) =-2 0011(3	) + 1101 (-3) =-1 0011(3	) + 1110 (-2) =0 0011(3	) + 1111 (-1) =1 0011(3
0000 (0) = 2 0011(3 )+	0001 (1) = 3 0011(3 ) +	0010 (2) = 4 0011(3 )+	0011 (3) = 5 0011(3) +	) + 0100 (4) = 6 0011(3 ) +	0101 (5) = 7 0011(3 )+	0110 (6) = -8 0011(3 ) +	0111 (7) = -7 0011(3) +	) + 1000 (-8) =-6 0011(3	) + 1001 (-7) =-5 0011(3	) + 1010 (-6) =-4 0011(3 ) +	) + 1011 (-5) =-3 0011(3 ) +	) + 1100 (-4) =-2 0011(3 ) +	) + 1101 (-3) =-1 0011(3 ) +	) + 1110 (-2) =0 0011(3 ) +	) + 1111 (-1) =1 0011(3 ) +

1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( –	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -	1010 ( -
6)+	6)+	6)+	6)+	6) +	6) +	6) +	6) +	6) +	6) +	6)+	6) +	6)+	6)+	6) +	6)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	<b>(1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-6	-5	-4	-3	-2	-1	0	1	=2	=3	=4	=5	=6	=7	=-8	=-7
1011 ( -	1011 ( -	1011 ( -	1011 ( -	1011 ( -	1011 ( -	1011 ( –	1011 ( -	1011 ( -	1011 ( -	1011 (-	1011 (-	1011 (-	1011 (-	1011 ( -	1011 ( -
5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
<b>(0)</b> =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-5	-4	-3	-2	-1	0	1	2	=3	=4	=5	=6	=7	=-8	=-7	=-6
1100 ( –	1100 ( –	1100 ( –	1100 ( -	1100 ( –	1100 ( –	1100 ( -	1100 ( -	1100 ( -	1100 ( –	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -
4) +	4) +	4) +	4)+	4)+	4) +	4)+	4)+	4)+	4)+	4) +	4) +	4)+	4)+	4)+	4)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
<b>(0)</b> =	<b>(1</b> ) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-4	-3	-2	-1	0	1	2	3	=4	=5	=6	=7	=-8	=-7	=-6	=-5
1101 ( –	1101 ( –	1101 ( –	1101 ( –	1101 ( –	1101 ( –	1101 ( –	1101 ( –	1101 ( -	1101 ( –	1101 ( -	1101 ( -	1101 ( -	1101 ( -	1101 ( –	1101 ( –
3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	<b>(4</b> ) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-3	-2	-1	0	1	2	3	4	=5	=6	=7	=-8	=-7	=-6	=-5	=-4
1110 ( -	1110 ( –	1110 ( –	1110 ( –	1110 ( -	1110 ( –	1110 ( -	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –
2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-2	-1	0	1	2	3	4	5	=6	=7	=-8	=-7	=-6	=-5	=-4	=-3
1111 ( -	1111 ( –	1111 ( -	1111 ( –	1111 ( –	1111 ( –	1111 ( -	1111 ( -	1111 ( –	1111 ( –	1111 ( -	1111 ( –	1111 ( -	1111 ( -	1111 ( –	1111 ( –
1)+	<b>1</b> ) +	<b>1</b> ) +	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+	1)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-1	0	1	2	3	4	5	6	=7	=-8	=-7	=-6	=-5	=-4	=-3	=-2

In[\*]= Grid[Table[Item[ToExprFullString[X, Y], {Background → If[GetExprValue[NegativeFlag, X, Y], Blue, White]}], {X, 0, 16 - 1}, {Y, 0, 16 - 1}], 격자 목록… 항목 L 만약 파랑 흰색 배경

Frame → All]

테두리 모든

0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000 (0	0000(0	0000 (0	0000(0	0000(0	0000 (0	0000 (0	0000 (0	0000(0
) +	) +	) +	) +	) +	) +	) +	) +								) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =					(-4)		(-2)	(-1)
0	1	2	3	4	5	6	7					=-4		=-2	=-1
0001 (1	0001(1	0001 (1	0001(1	0001(1	0001 (1	0001 (1	0001(1	0001(1	0001(1	0001(1	0001(1	0001(1	0001(1	0001(1	0001(1
) +	) +	) +	) +	) +	) +	) +									) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =						(-4)		(-2)	(-1)
1	2	3	4	5	6	7					=-4		=-2	=-1	=0
0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010 (2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2	0010(2
) +	) +	) +	) +	) +	) +	) +								) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =						(-4)		(-2)	(-1)
2	3	4	5	6	7	-8				=-4		=-2	=-1	=0	=1
0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011 (3	0011(3	0011 (3	0011(3
) +	) +	) +	) +	) +									) +	) +	) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =								(-4)	(-3)	(-2)	(-1)
3	4	5	6	7					=-4		=-2	=-1	=0	=1	=2
0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4	0100 (4
) +	) +	) +	) +									) +	) +	) +	) +
0000	0001	0010	0011		0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3) =	(4) =								(-4)	(-3)	(-2)	(-1)
4	5	6	7	-8	-7	-6	-5	=-4	=-3	=-2	=-1	=0	=1	=2	=3

H	0101 (5	0101 (5	0101 (5	0101(5	0101(5	0101(5	0101(5	0101(5	0101(5	0101(5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5	0101 (5
'	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011				0111				1011	1100	1101	1110	1111
	(0) =	( <b>1</b> ) =	(2) =	(3) =	(4) =	(5) =		(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	5	6	7	-8				-4				( – <b>3</b> ) = <b>0</b>	=1	=2	=3	=4
H	_															
'	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6
	) + 0000	) + <b>0001</b>	) + 0010					) + <b>0111</b>			) + <b>1010</b>	) + <b>1011</b>	) + 1100	) + <b>1101</b>	) + <b>1110</b>	) + <b>1111</b>
	(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6)=	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	
	( <i>v</i> ) = 6	( <u>1</u> ) = 7	(2) = -8				(8) = -4			=- <b>1</b>	( - <del>0</del> ) = <b>0</b>	= <b>1</b>	=2	=3	=4	(-1) =5
L																
-   '	9111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7
	) +									)+	) +	) +	) +	) +	) +	) +
	0000	0001		0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	(1) =	(2) =		(4) =	(5) =				(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
= _	7					-4		-2	=-1	=0	=1	=2	=3	=4	=5	=6
		1000 (-	1000 (-	1000 (-	1000 ( –	1000 ( –	1000 ( –	1000 ( –	1000 ( –	1000 ( –	1000 ( -	1000 ( -	1000 ( –	1000 ( –	1000 ( –	1000 ( -
									8) +	8)+	8) +	8) +	8)+	8)+	8)+	8)+
		0001		0011		0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
		(1) =	(2) =		(4) =				(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
					-4		-2	-1	=0	=1	=2	=3	=4	=5	=6	=7
	L001 ( -	1001 (-	1001 (-	1001 ( -	1001 (-	1001 (-	1001 (-	1001 ( –	1001 ( –	1001 (-	1001 (-	1001 (-	1001 (-	1001 (-	1001 ( –	1001 (-
								7)+	7)+	7)+	7)+	7)+	7)+	7)+	7)+	7)+
		0001		0011		0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
		(1) =	(2) =		(4) =			(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
				-4		-2	-1	0	=1	=2	=3	=4	=5	=6	=7	=-8
		1010 (-	1010 (-	1010 ( -	1010 (-	1010 (-	1010 ( -	1010 ( -	1010 ( -	1010 (-	1010 ( -	1010 ( -	1010 (-	1010 ( -	1010 (-	1010 (-
							6)+	6) +	6) +	6) +	6) +	6) +	6) +	6)+	6)+	
		0001		0011		0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
		(1) =	(2) =		(4) =		(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	-6	-5	-4	-3	-2	-1	0	1	=2	=3	=4	=5	=6	=7	=-8	=-7

Out[ • ]=

1011 ( –	1011 (-	1011 (-	1011 (-	1011 (-	1011 ( –	1011 ( -	1011 ( -	1011 ( -	1011 (-	1011 ( -	1011 ( -	1011 ( -	1011 (-	1011 (-	1011 ( –
5)+					5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+		5)+
0000	0001		0011		0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =		(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
-5	-4		-2	-1	0	1	2	=3	=4	=5	=6	=7	=-8		=-6
1100 ( -	1100 ( -	1100 (-	1100 (-	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 ( -	1100 (-	1100 (-	1100 ( –	1100 ( –
4)+	4)+	4)+	4)+	4) +	4) +	<b>4</b> ) +	4)+	4) +	4)+	4) +	4) +	4)+	4)+	4)+	4)+
0000	0001		0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =		(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)		(-2)	(-1)
-4		-2	-1	0	1	2	3	=4	=5	=6	=7	=-8			=-5
1101 (-	1101 (-	1101 (-	1101 ( –	1101 ( –	1101 ( -	1101 ( -	1101 ( -	1101 ( -	1101 (-	1101 ( -	1101 ( -	1101 ( –	1101 (-	1101 ( -	1101 ( –
3)+			3) +	3)+	3)+	3)+	3)+	3)+	3)+	3)+	3)+				3)+
0000	0001		0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)		(-2)	(-1)
-3	-2	-1	0	1	2	3	4	=5	=6	=7	=-8				=-4
1110 ( –	1110 ( -	1110 ( –	1110 ( –	1110 ( –	1110 ( -	1110 ( -	1110 ( -	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( –	1110 ( -	1110 ( –
2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)		(-4)		(-2)	(-1)
-2	-1	0	1	2	3	4	5	=6	=7	=-8				=-4	=-3
1111 ( –	1111 ( –	1111 ( -	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –	1111 ( –
1)+	<b>1</b> ) +	1)+	1)+	1)+	<b>1</b> ) +	<b>1</b> ) +	1)+	1)+	<b>1</b> ) +	1)+	<b>1</b> ) +	<b>1</b> ) +	1)+	1)+	<b>1</b> ) +
0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
(0) =	( <b>1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)			(-4)		(-2)	(-1)
-1	0	1	2	3	4	5	6	=7	=-8	=-7	=-6	=-5	=-4	=-3	=-2

In[@]:= Grid[Table[Item[ToExprFullString[X, Y],

격자 목록… 항목

{Background → SmartBlend[{If[GetExprValue[Overflow1, X, Y], Blue, Nothing], If[GetExprValue[Zero, X, Y], Green, Nothing], 파랑 자동 삭제되… 만약 녹색 자동 삭제되는 요

 $If[GetExprValue[NegativeFlag, X, Y], Red, Nothing]\}]\}], \{X, 0, 16-1\}, \{Y, 0, 16-1\}], Frame \rightarrow All]$ \_빨강 \_자동 삭제되는 요소

	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110 (6	0110(6
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	<b>(0)</b> =	<b>(1</b> ) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(8-)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	6	7	-8	-7	-6	-5	-4	-3	=-2	=-1	=0	=1	=2	=3	=4	=5
	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7	0111 (7
	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +	) +
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	<b>(0)</b> =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =	(-8)	(-7)	(-6)	(-5)	(-4)	(-3)	(-2)	(-1)
	7	-8	-7	-6	-5	-4	-3	-2	=-1	=0	=1	=2	=3	=4	=5	=6
ıt[•]=	1000 (-	1000 (-	1000 (-	1000 (-	1000 (-	1000 (-	1000 ( -	1000 ( -	1000 (-	1000 (-	1000 (-	1000 (-	1000 (-	1000 (-	1000 (-	1000 ( -
	8)+	8)+	8)+	8)+	8)+	8)+	8)+	8)+	8)+							8)+
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	(1) =	(2) =	(3) =	(4) =	(5) =	(6) =	(7) =	(8)				(-4)		(-2)	(-1)
	-8	-7	-6	-5	-4	-3	-2	-1	=0	=1	=2		=4			=7
	1001 (-	1001 ( -	1001 (-	1001 (-	1001 (-	1001 (-	1001 ( -	1001 (-	1001 ( –	1001 (-	1001 (-	1001 (-	1001 (-	1001 (-	1001 (-	1001 ( -
	7)+	7)+	7)+	7)+	7)+	7)+	7)+	7)+								7)+
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	(1) =	(2) =	(3)=	(4) =	(5) =	(6) =	(7) =					(-4)		(-2)	(-1)
	-7	-6	-5	-4	-3	-2	-1	0	=1	=2		=4				=-8
	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 ( -	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-	1010 (-
	6)+	6)+	6)+	6)+	6)+	6)+	6) +	6) +							6)+	6)+
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	(1) =	(2) =	(3)=	(4) =	(5)=	(6) =	(7) =					(-4)		(-2)	(-1)
	-6	-5	-4	-3	-2	-1	0	1			=4				=-8	=-7
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	5)+	5)+	5)+	5)+	5)+	5)+	5)+	5)+						5)+	5)+	5)+
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	(0) =	(1) =	(2) =	(3) =	(4) =	(5)=	(6) =	(7) =					(-4)	(-3)	(-2)	(-1)
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(0) =	(1) =	(2) =	(3) =	(4) =	(5)=	(6) =	(7) =	(-8)				(-4)	(-3)	(-2)	(-1)
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2)+	2)+	<b>2</b> ) +	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+	2)+
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