

Nr 1

1	2	3	4	5	6	7	8	10	2
1	2	3	4	5	6	7	8	10	2
1	2	3	4	5	6	7	8	10	2
1	2	3	4	5	6	7	8	10	2
1	2	3	4	5	6	7	8	10	2

<u>2</u>	<u>385802</u>	<u>8</u>	<u>3</u>					
	<u>385802</u>	<u>192901</u>	<u>2</u>					
	<u>0</u>	<u>192900</u>	<u>196450</u>		<u>2</u>			
		<u>7</u>	<u>96450</u>	<u>48225</u>	<u>2</u>		<u>2</u>	
			<u>0</u>	<u>48224</u>	<u>24112</u>	<u>12056</u>	<u>2</u>	
				<u>1</u>	<u>24112</u>	<u>12056</u>		<u>6028</u>
						<u>0</u>	<u>0</u>	<u>6028</u>

$$\begin{array}{r}
 \begin{array}{c} 2 \\ 3014 \end{array} \\
 \begin{array}{c} 2 \\ 3014 \end{array} \left| \begin{array}{c} 1507 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 0 \end{array} \left| \begin{array}{c} 1506 \\ 753 \\ 2 \end{array} \right. \\
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 752 \\ 376 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 376 \\ 188 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 0 \end{array} \left| \begin{array}{c} 188 \\ 94 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 0 \end{array} \left| \begin{array}{c} 94 \\ 47 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 0 \end{array} \left| \begin{array}{c} 46 \\ 23 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 22 \\ 11 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 10 \\ 5 \\ 2 \end{array} \right. \\
 \hline
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 4 \\ 2 \\ 1 \end{array} \right. \\
 \hline
 \begin{array}{c} 1 \end{array} \left| \begin{array}{c} 2 \\ 0 \end{array} \right. \\
 \hline
 \end{array}$$

1011 1100 0110 0001 0100 1110

13 C 6 1 4 E

~~RG~~ ~~BG~~ TBCG14(E)

Nr 1

1000000								
1000000	2							
0	50000	2						
50000	250000	2						
0	250000	125000	2					
	0	250000	62500	2				
		0	62500	31250	2			
			31250	15625				
			0	15624	7			
2								
7812	2							
7812	3906	2						
0	3906	1953	2					
0	1952	976	2					
	1952	976	488	2				
		976	488	244	2			
			0	244	122	2		
				0	122	61	2	
					0	60	30	2
						1	30	
						0	15	2
							7	
							6	
							7	
							3	
							2	
							1	

1111 0100 0010 0100 0000

F 4 2 4 0

F(240)

Nr 2

7 6 5 4 3 2 1 0
12345678

$$1 \cdot 16^7 + 2 \cdot 16^6 + 3 \cdot 16^5 + 4 \cdot 16^4 + 5 \cdot 16^3 + 6 \cdot 16^2 + 7 \cdot 16^1 + 8 \cdot 16^0 =$$

1305419896₁₀

0 3 4 3 2 1 0
1000000

$$1 \cdot 16^6 = \underline{\underline{16777216_{10}}}$$

Nr 3 ?

Nr 4

$$A \rightarrow B = !A \parallel B$$

A	B	$A \rightarrow B$	$!A \parallel B$
0	0	1	1
0	1	1	1
1	0	0	0
1	1	1	1

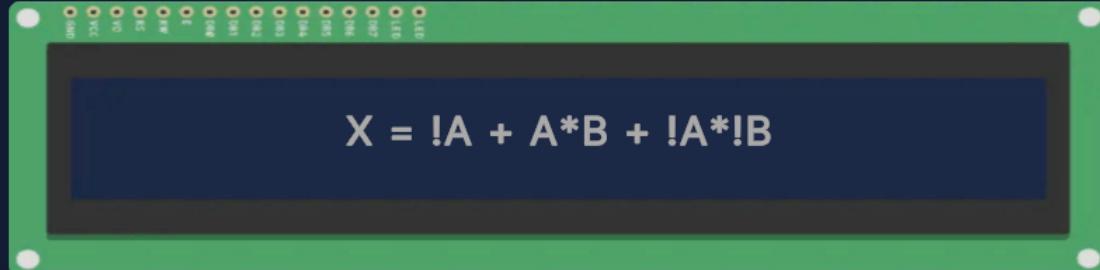
↑ ↑

$$A \leftrightarrow B = (A \& \& B) \parallel (!A \& \& !B)$$

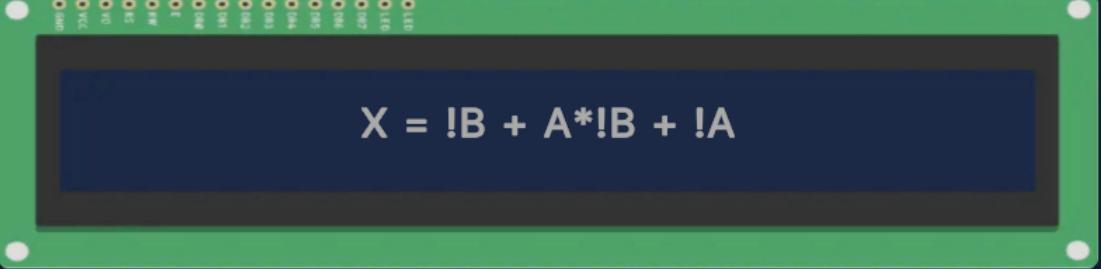
A	B	$A \leftrightarrow B$	$A \& \& B$	$!A \& \& !B$	$(A \& \& B) \parallel (!A \& \& !B)$
0	0	1	0	1	1
0	1	0	0	0	0
1	0	0	0	0	0
1	1	1	1	0	1

↑

↑



A	B	!A	A*B	!A*!B	X
0	0	1	0	1	1
0	1	1	0	0	1
1	0	0	0	0	0
1	1	0	1	0	1


$$X = !B + A*B + !A$$

A	B	!B	A*B	!A	X
0	0	1	0	1	1
0	1	0	0	1	1
1	0	1	1	0	1
1	1	0	0	0	0



HEX
↓
BIN



▲ ▲
4 F
▼ ▼

0 1 0 0 1 1 1 1





HEX
↓
BIN



▲ ▲
6 2
▼ ▼

0 1 1 0 0 0 1 0





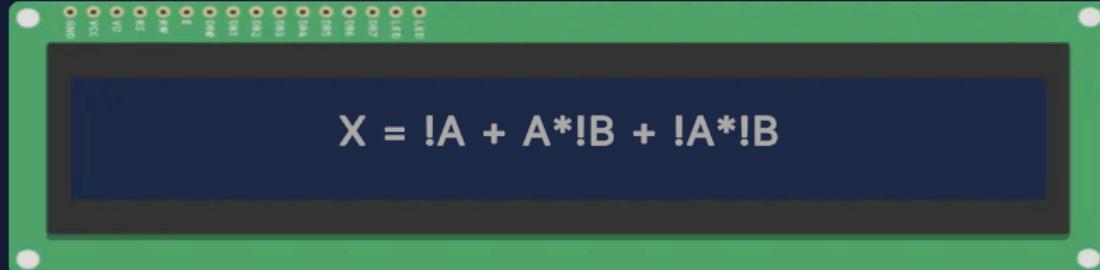
HEX
BIN



3 E

0 0 1 1 1 1 1 0





A	B	!A	A*B	!A*B	X
0	0	1	0	1	1
0	1	1	0	0	1
1	0	0	1	0	1
1	1	0	0	0	0



HEX
BIN

0 1 0 1 1 1 0 1

5 D







DEC
↓
BIN

- 0 9 0

1 0 1 0

0 1 1 0

1 0 1 0 0 1 1 0



DEC



BIN



-

0

3

8



1

1

0

1

1

0

1

0