



UNIVERSIDAD DE SAN CARLOS DE GUATEMALA  
FACULTAD DE INGENIERÍA  
ESCUELA DE CIENCIAS  
DEPARTAMENTO DE MATEMÁTICA

MATEMÁTICA PARA COMPUTACIÓN 1  
Ing. Mario López  
Aux. Diego Camey  
Sección N

Nombre		Registro Académico	
Javier Andrés Monjes Solórzano		202100081	
Actividad	Correlativo	Fecha	
Circuito No. 03	1	29/ 04 / 2023	

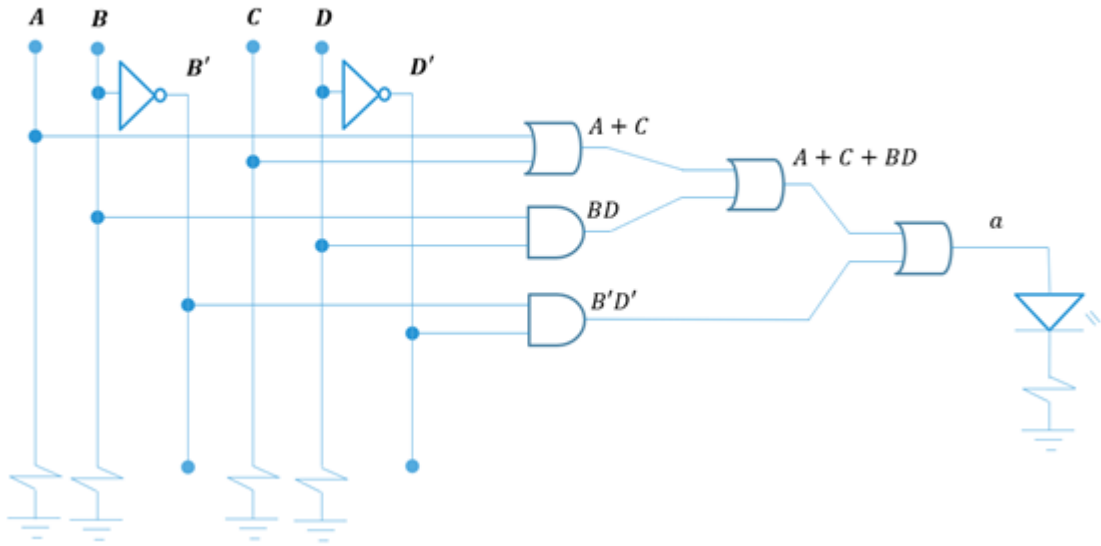
DESCRIPCIÓN DE CALIFICACIÓN	
Presentación (20)	
Ejercicios (80)	
<b>TOTAL (100)</b>	

## Circuito No. 03 MC1N 202301

[https://drive.google.com/file/d/1pjuehjXVabWZOZM\\_v0q6WM9SHGhQEY35/view?usp=sharing](https://drive.google.com/file/d/1pjuehjXVabWZOZM_v0q6WM9SHGhQEY35/view?usp=sharing)

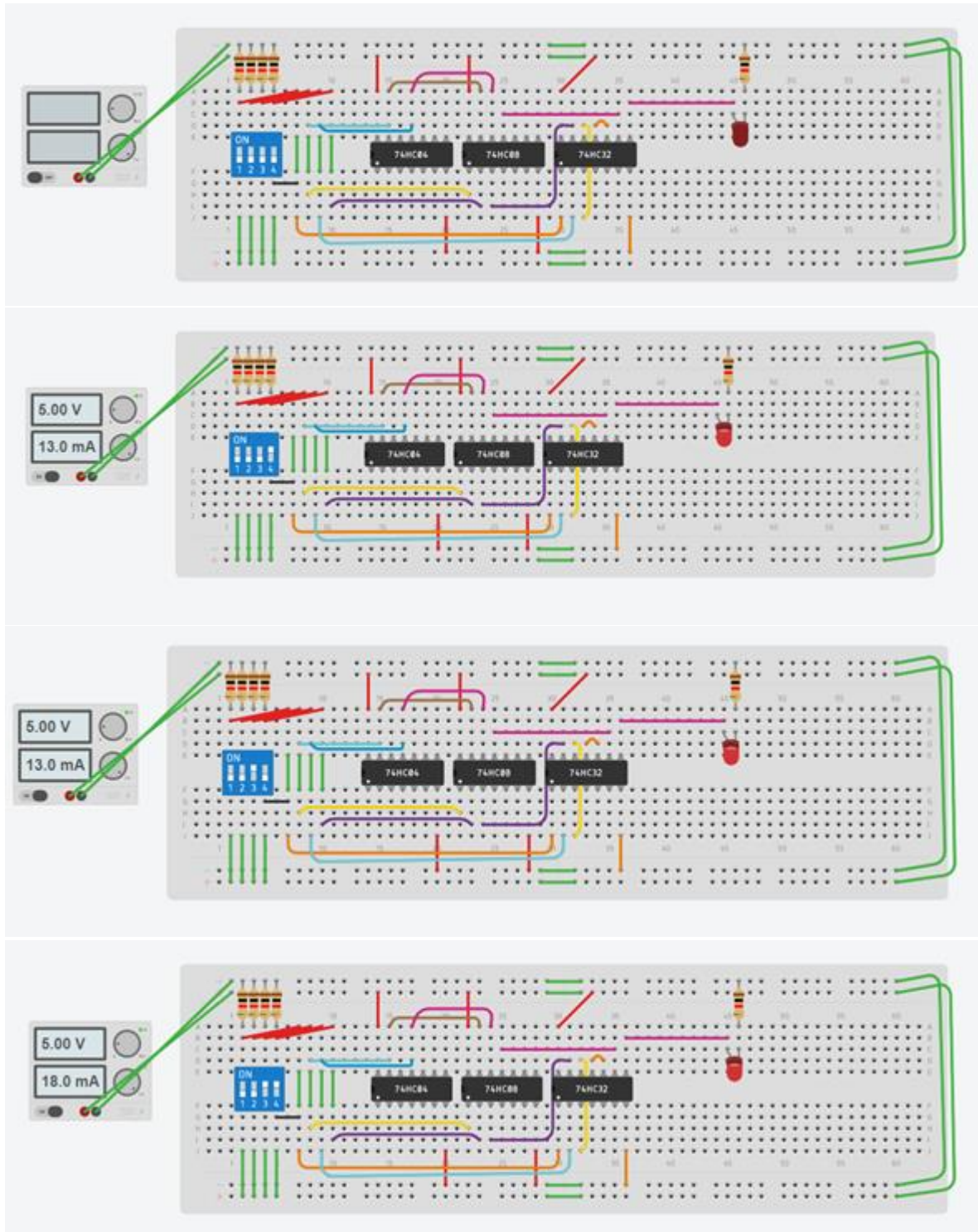
#### 4. CIRCUITO PARA EL SEGMENTO $a$

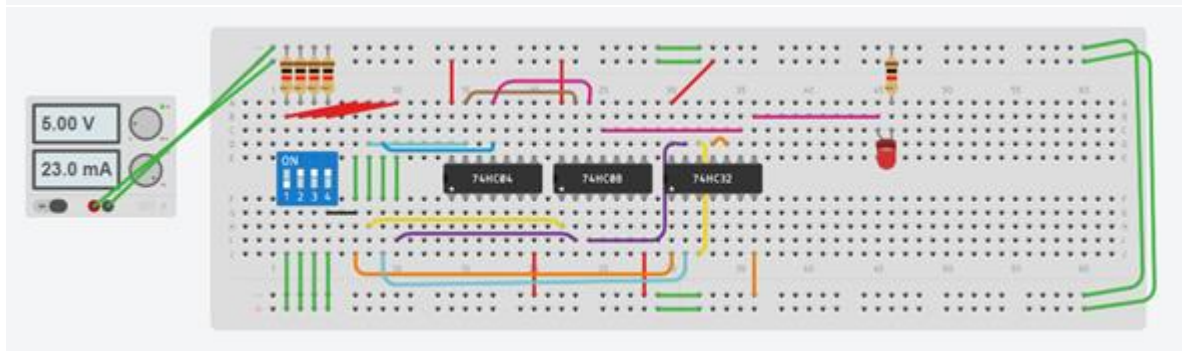
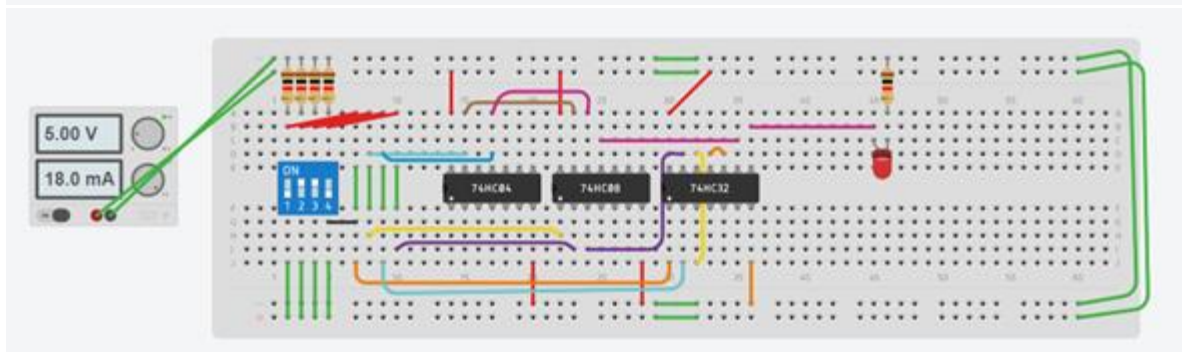
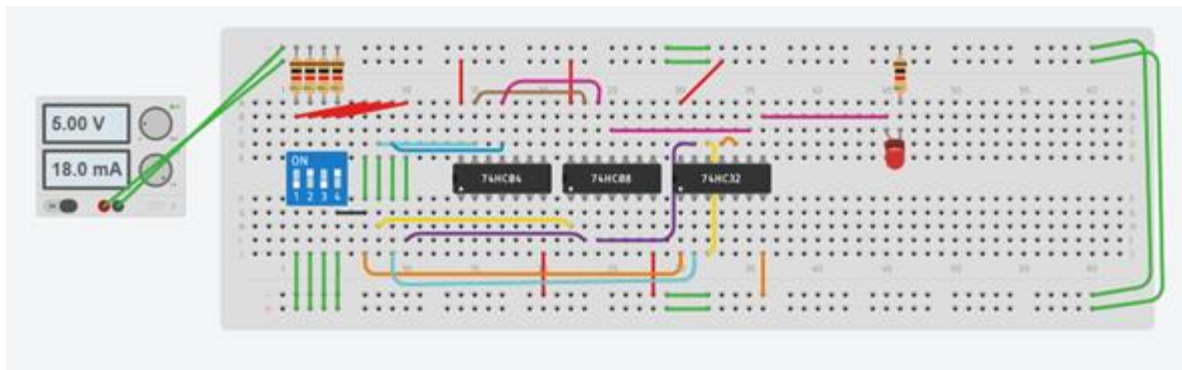
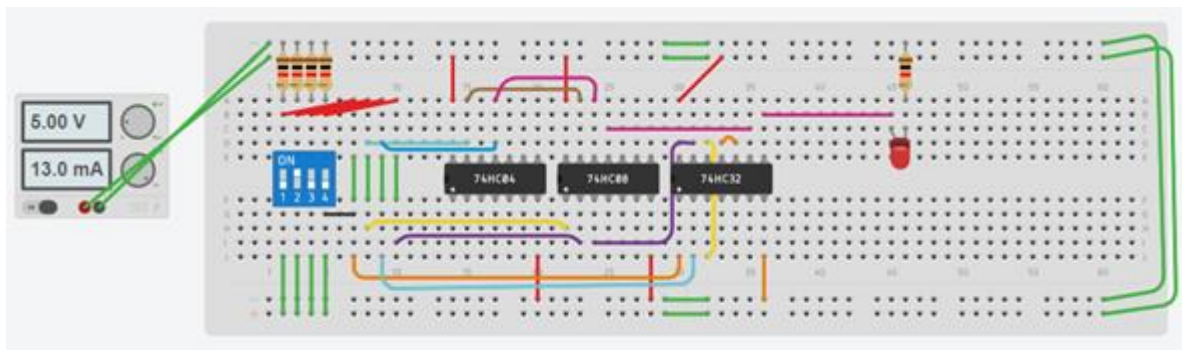
$$a = A + C + BD + B'D'$$



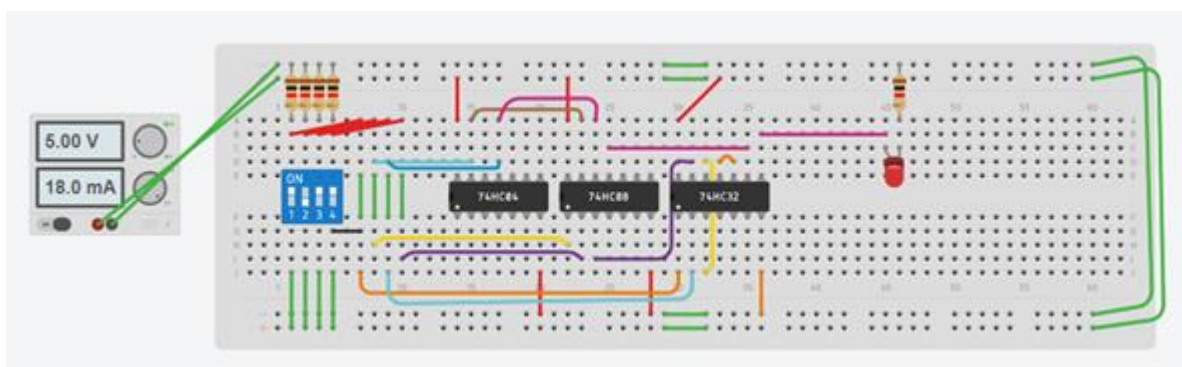
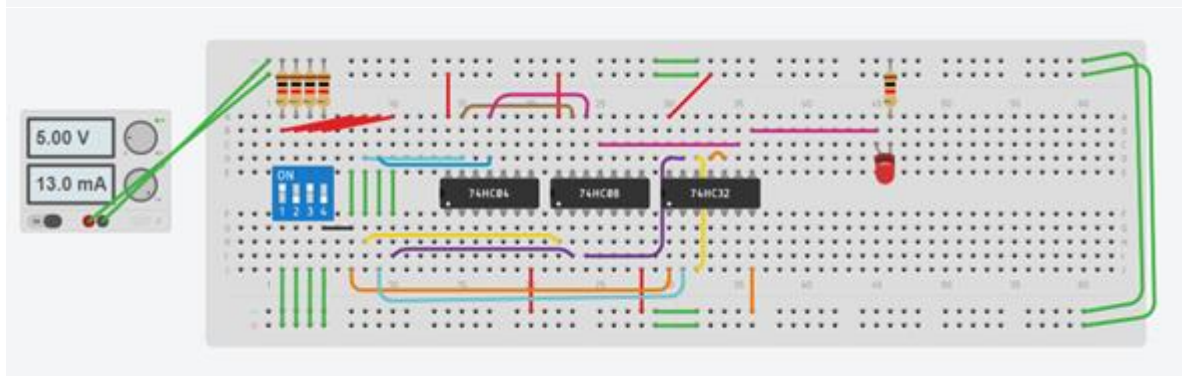
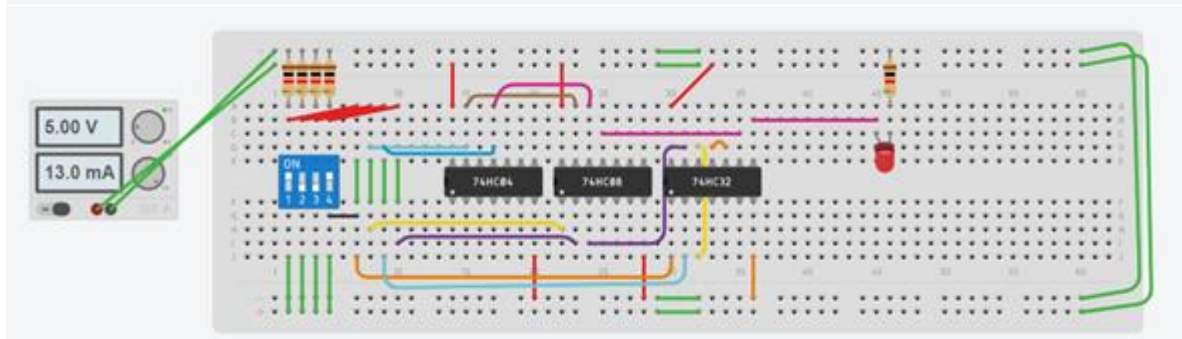
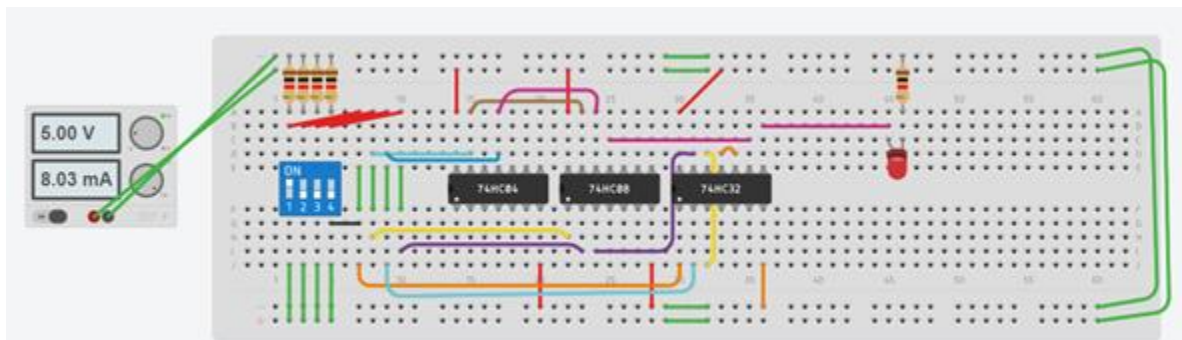
A	B	C	D	a
0	0	0	0	1
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	X
1	0	1	1	X
1	1	0	0	X
1	1	0	1	X
1	1	1	0	X
1	1	1	1	X

# Simulación en Tinkecard.

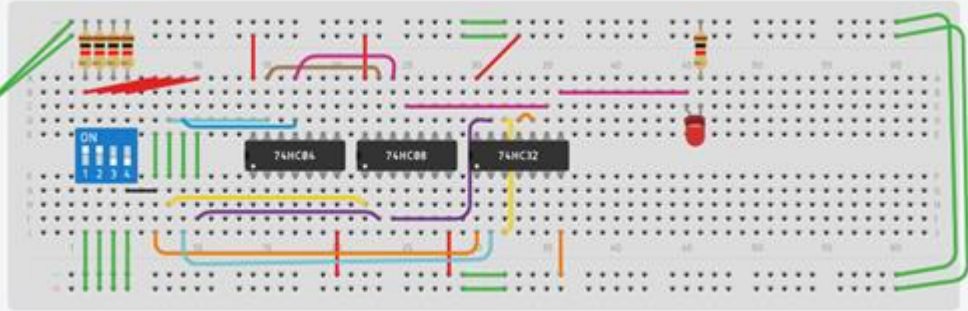




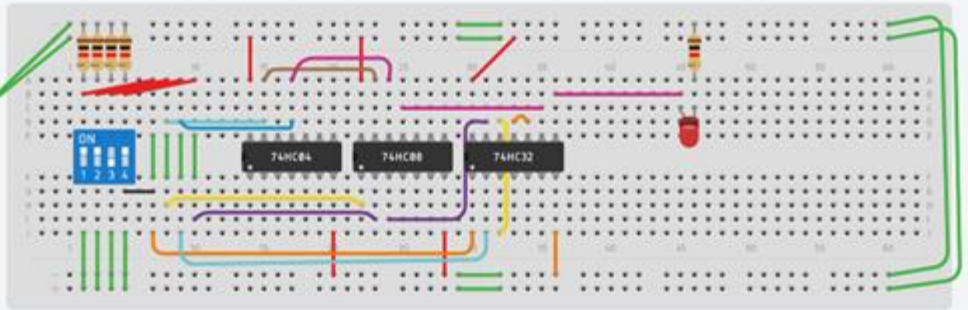




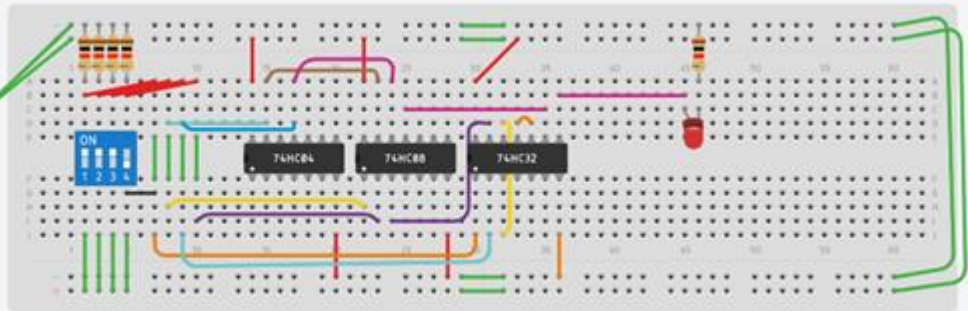
5.00 V  
13.0 mA



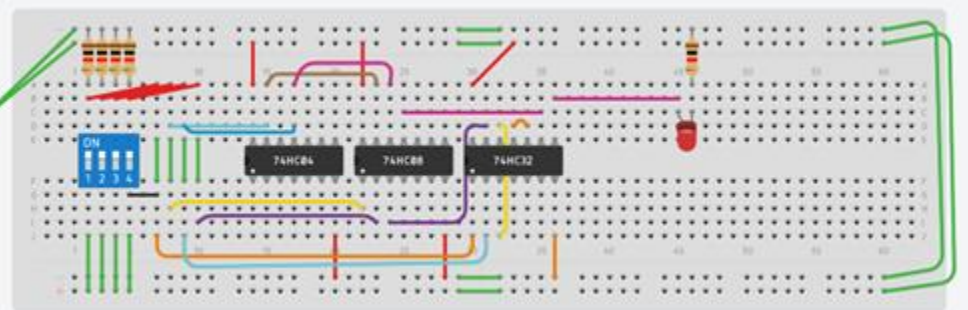
5.00 V  
18.0 mA



5.00 V  
18.0 mA



5.00 V  
23.0 mA



Nombre	Cantidad	Componente
SW7	1	SPST de conmutadores DIP x 4
P11	1	5 , 5 Suministro de energía
R45 R46 R47 R48 R54	5	1 kΩ Resistencia
D16	1	Rojo LED
U22	1	Puerta AND cuádruple
U25	1	Puerta OR cuádruple
U26	1	Inversor hexagonal

