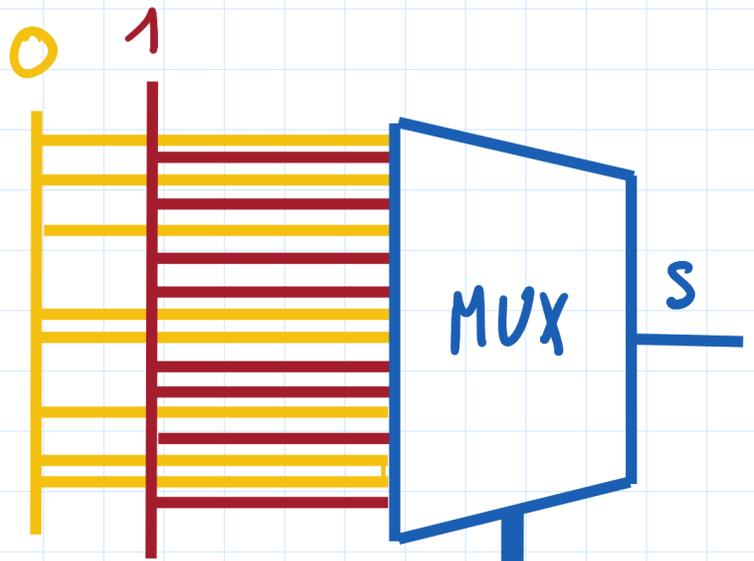
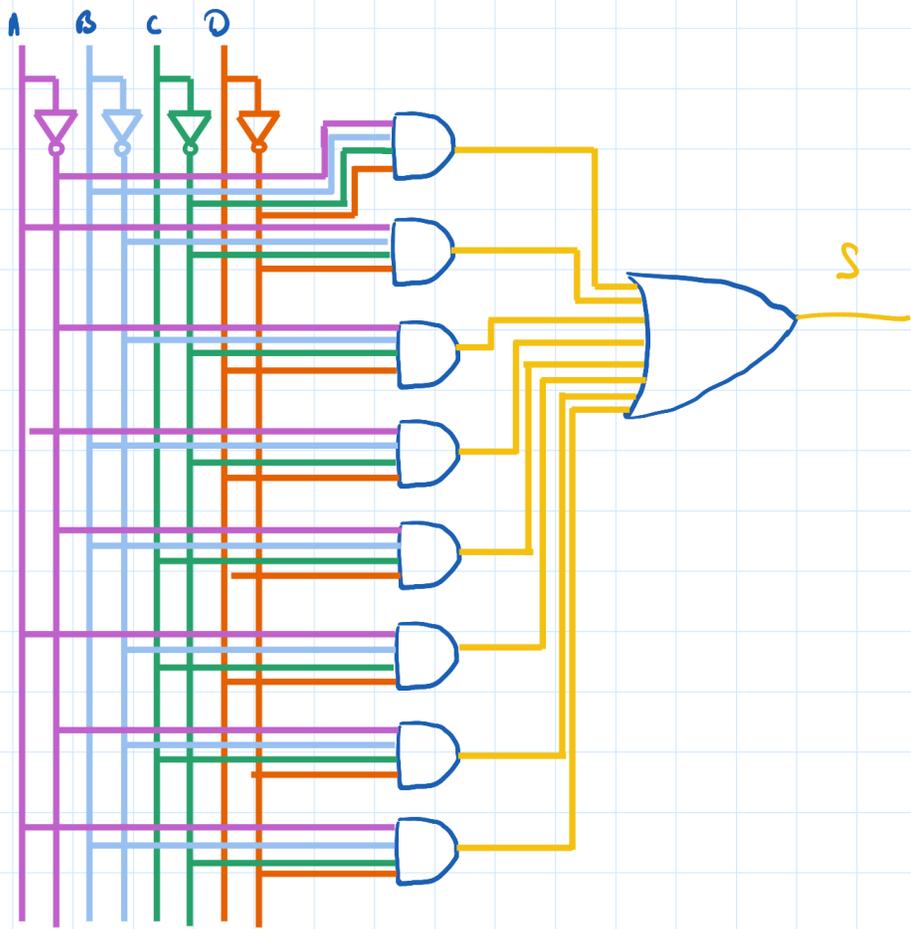


TDC: archi. (dispo sur le FIL)

A	B	C	D	S
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	0
1	1	0	0	1
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

		AB			
		00	01	11	10
CD	00	0	1	0	1
	01	1	0	1	0
	11	0	1	0	1
	10	1	0	1	0

$$S = \bar{A}B\bar{C}\bar{D} + A\bar{B}\bar{C}\bar{D} + \bar{A}B\bar{C}D + A\bar{B}\bar{C}D + \bar{A}BCD + A\bar{B}CD + \bar{A}BC\bar{D} + ABC\bar{D}$$



1. Comme on a $4 = 2^2$ bascules, il faut:
 $\lfloor \log_2(4-1) \rfloor = 2$ bascules ①.



2.

E	Q_1	Q_0	E_N	D_1	D_0	S_2	S_3	S_2	S_1	S_0
E_0	0	0	E_1	0	1	0	0	0	0	0
E_1	0	1	E_2	1	0	0	0	0	1	1
E_2	1	0	E_3	1	1	0	1	0	0	0
E_3	1	1	E_0	0	0	1	1	1	1	1

$$D_1 = Q_1 \oplus Q_0; \quad D_0 = \overline{Q_0}$$

$$S_4 = Q_1 Q_0; \quad S_3 = Q_1; \quad S_2 = Q_1 Q_0; \quad S_1 = Q_0; \quad S_0 = \overline{Q_0}$$

