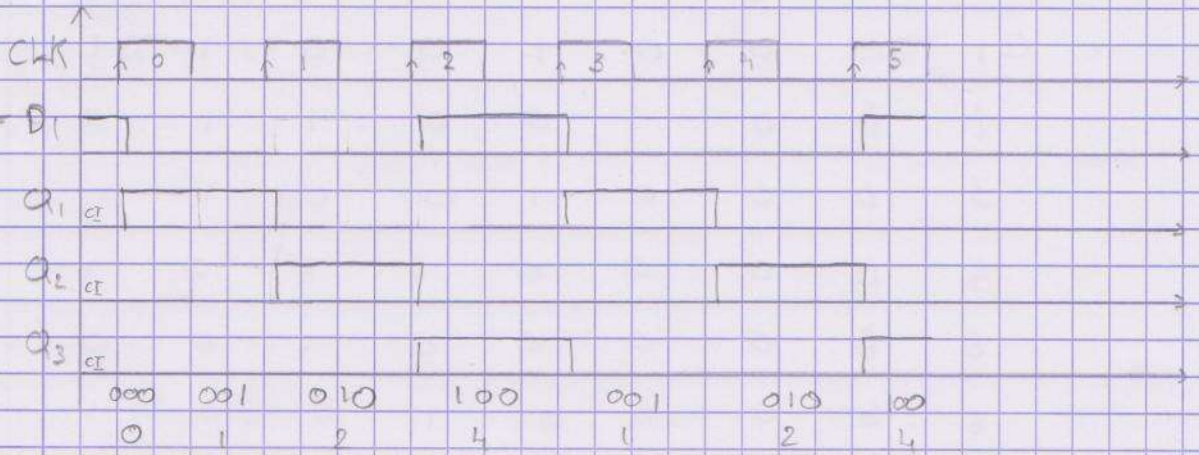


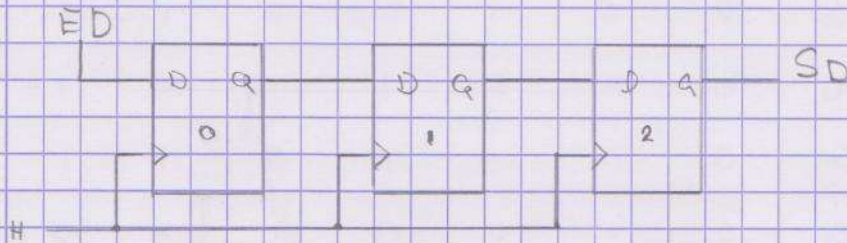
Exo 1



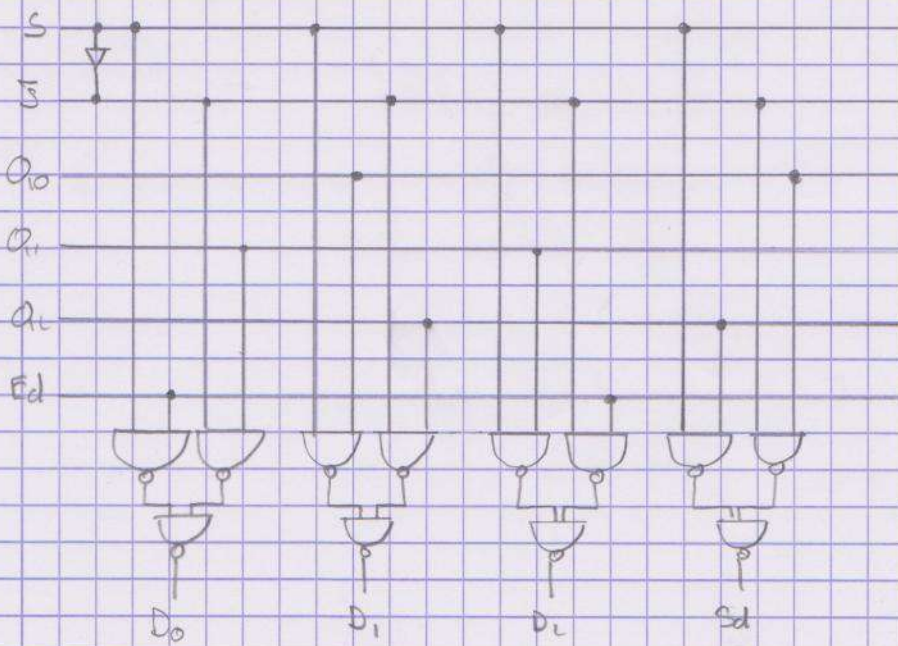
Exo 2

Sur le sujet

Exo 3



droite	gauche	
$S = 1$	$S = 0$	
$D_0 = Ed$	$D_0 = Q_1$	$D_0 = SEd + \bar{S}Q_1 = \overline{SEd \cdot \bar{S}Q_1}$
$D_1 = Q_0$	$D_1 = Q_2$	$D_1 = SQ_0 + \bar{S}Q_2$
$D_2 = Q_1$	$D_2 = Ed$	$D_2 = SQ_1 + \bar{S}Ed$
$SD = Q_2$	$SD = Q_0$	$SD = SQ_2 + \bar{S}Q_0$





Exo 4

CLK	D/ $\bar{G}$	$E_5$	$Q_7$	$Q_6$	$Q_5$	$Q_4$	$Q_3$	$Q_2$	$Q_1$	$Q_0$
1	—	0	0	1	0	0	1	1	0	0
2	G	0	1	0	0	1	1	0	0	0
3	D	0	0	1	0	0	1	1	0	0
4	D	0	0	0	1	0	0	1	1	0
5	D	0	0	0	0	1	0	0	1	1
6	G	0	0	0	1	0	0	1	1	0
7	G	0	0	1	0	0	1	1	0	0
8	D	0	0	0	1	0	0	1	1	0
9	G	0	0	1	0	0	1	1	0	0
10	D	0	0	0	1	0	0	1	1	0
11	G	0	0	1	0	0	1	1	0	0
12	G	0	1	0	0	1	1	0	0	0
13	G	0	0	0	1	1	0	0	0	0