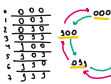
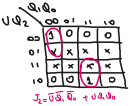
Diseñar un contador sincrónico binario que permita contar a elección de forma ascendente o descendente. Debe ser de modulo 5 (rango 0,1,2,3,4) y estar implementado con FF-JK.

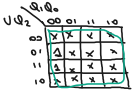


	Q_2	Q_1	Q_0	Q_2'	Q_1'	Q_0'	J_2	K_2	J_1	K_1	J_0	K_0
0	0	0	0	0	0	1	0	X	0	X	1	X
1	0	0	1	0	1	0	0	X	1	X	X	1
2	0	1	0	0	1	1	0	X	X	0	1	X
3	0	1	1	1	0	0	1	X	X	1	X	1
4	1	0	0	0	0	0	X	1	0	X	0	X
5	1	0	1	X	X	X	X	X	X	X	X	X
6	1	1	0	X	X	X	X	X	X	X	X	X
7	1	1	1	X	X	X	X	X	X	X	X	X

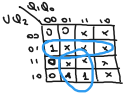
Agrupo x minitérminos $\begin{cases} n=1 \\ \bar{n}=0 \end{cases}$



$J_2 = \bar{U}\bar{Q}_1\bar{Q}_0 + U Q_1 Q_0$
$= \overline{U \oplus Q_1 \oplus Q_0}$



$K_2 = 1$



$J_1 = \bar{U} Q_2 + U Q_0$

$K_1 = \bar{U}\bar{Q}_0 + U\bar{Q}_0$
$= \overline{U \oplus Q_0}$

$J = Q_1 + \bar{U}Q_2 + U\bar{Q}_2$
$Q_1 + (U \oplus Q_2)$

$K = 1$