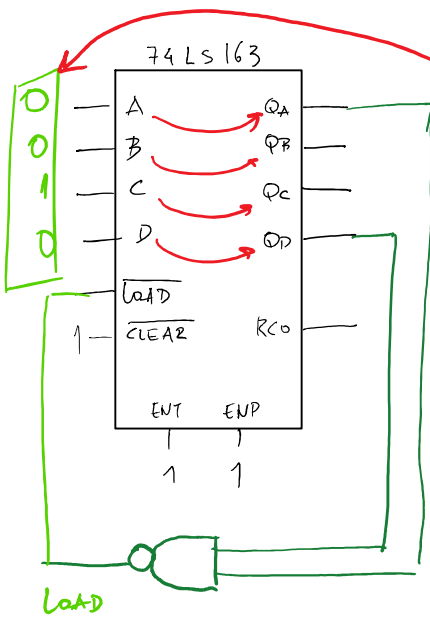
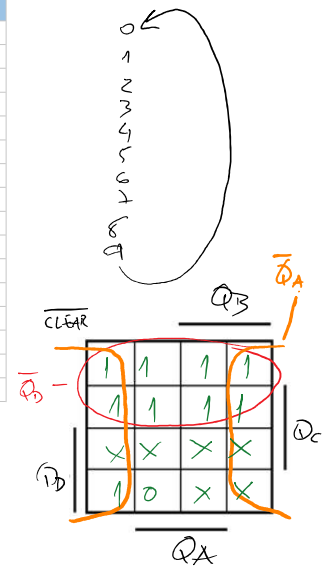


QD	QC	QB	QA	RCO	CLEAR
0	0	0	0	0	1
0	0	0	1	0	1
0	0	1	0	0	1
0	0	1	1	0	1
0	1	0	0	0	1
0	1	0	1	0	1
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	1
1	0	0	1	0	0
1	0	1	0	0	X
1	0	1	1	0	X
1	1	0	0	0	X
1	1	0	1	0	X
1	1	1	0	0	X
1	1	1	1	1	X

$$\overline{\text{CLEAR}} = \overline{Q_A} + \overline{Q_D}$$

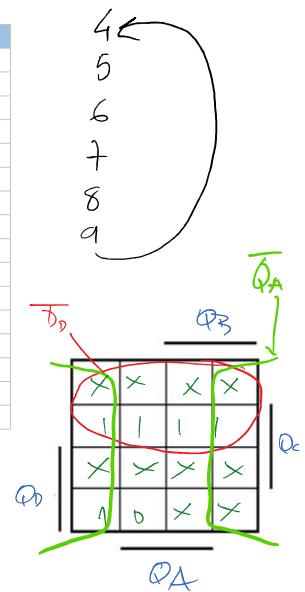
$$= \overline{Q_A \cdot Q_D}$$



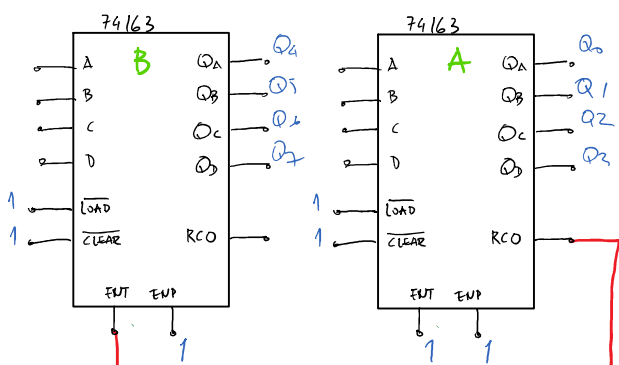
QD	QC	QB	QA	RCO	LOAD
0	0	0	0	0	X
0	0	0	1	0	X
0	0	1	0	0	X
0	0	1	1	0	X
0	1	0	0	0	1
0	1	0	1	0	1
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	1
1	0	0	1	0	0
1	0	1	0	0	X
1	0	1	1	0	X
1	1	0	0	0	X
1	1	0	1	0	X
1	1	1	0	0	X
1	1	1	1	1	X

$$\overline{\text{LOAD}} = \overline{Q_A} + \overline{Q_D}$$

$$= \overline{Q_A \cdot Q_D}$$



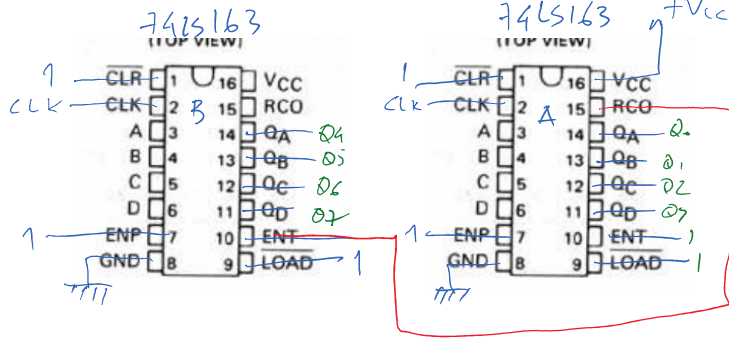
4-1-2021



QD	QC	QB	QA	RCO
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

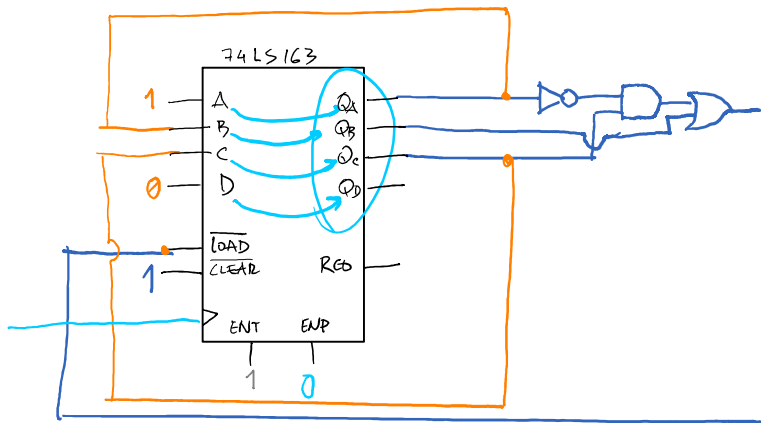


0	0	0	0	0	0	1	0	1	0	0
0	0	0	0	0	0	1	0	1	1	0
0	0	0	0	0	0	1	1	0	0	0
0	0	0	0	0	0	1	1	0	1	0
0	0	0	0	0	0	1	1	1	0	0
0	0	0	0	0	1	1	1	1	1	1



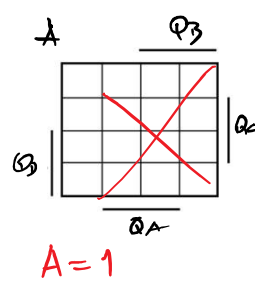
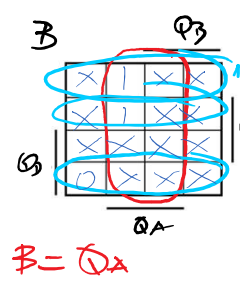
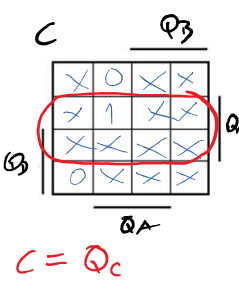
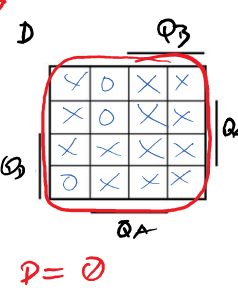
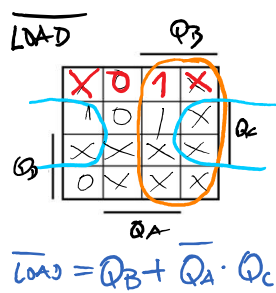
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1	0	0	0
...
0	0	0	1	1	1	1	1	1	1	1
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	1	0	0	0
...
0	0	1	0	1	1	1	1	1	1	1
0	0	1	1	0	0	0	0	0	0	0
0	0	1	1	0	0	0	1	0	0	0
...
1	1	1	1	1	1	1	0	1	1	1
1	1	1	1	1	1	1	0	0	0	0
1	1	1	1	1	1	1	0	1	1	1
1	1	1	1	1	1	1	1	0	0	0
1	1	1	1	1	1	1	1	1	0	0
1	1	1	1	1	1	1	1	1	1	1

..., 1, 3, 4, 5, 7, 8, 1, 3, ...



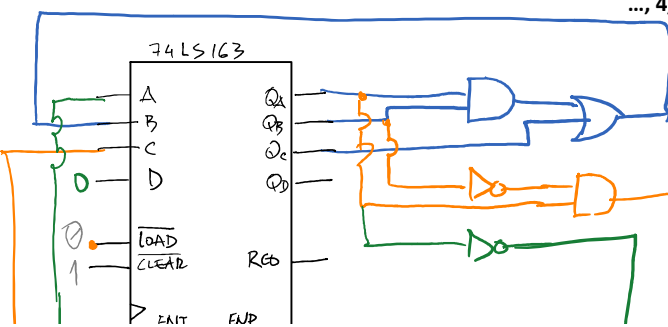
QD	QC	QB	QA	RCO	LOAD	D	C	B	A
0	0	0	0	0	X	X	X	X	X
0	0	0	1	0	0	0	0	1	1
0	0	1	0	0	X	X	X	X	X
0	0	1	1	0	1	X	X	X	X
0	1	0	0	0	0	1	X	X	X
0	1	0	1	0	0	X	X	X	X
0	1	1	0	0	0	1	X	X	X
0	1	1	1	0	0	0	0	0	1
1	0	0	0	0	X	X	X	X	X
1	0	0	1	0	X	X	X	X	X
1	0	1	0	0	X	X	X	X	X
1	1	0	0	0	X	X	X	X	X
1	1	0	1	0	X	X	X	X	X
1	1	1	0	0	X	X	X	X	X
1	1	1	1	0	X	X	X	X	X
1	1	1	1	1	X	X	X	X	X

$X0X1 \rightarrow X01X$

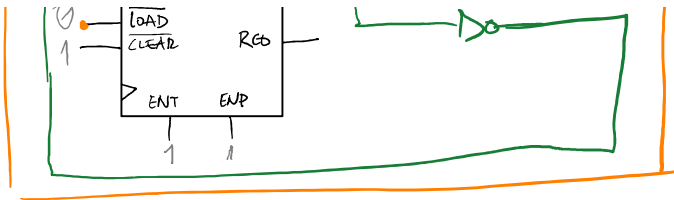


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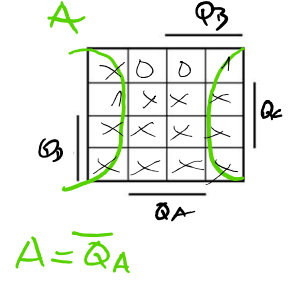
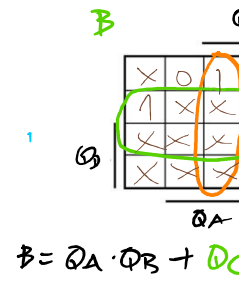
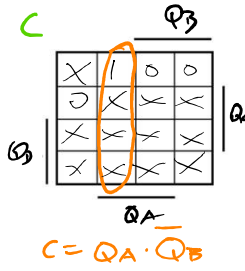
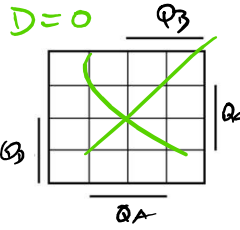
..., 4, 3, 2, 1, 4, ...



QD	QC	QB	QA	RCO	LOAD	D	C	B	A
0	0	0	0	0	0	x	x	x	x
0	0	0	1	0	0	0	1	0	0
0	0	1	0	0	0	0	0	0	1
0	0	1	1	0	0	0	0	1	0
0	1	0	0	0	0	0	0	1	1
0	1	0	1	0	x	x	x	x	x
0	1	1	0	0	x	x	x	x	x
0	1	1	1	0	x	x	x	x	x
1	0	0	0	0	x	x	x	x	x
1	0	0	1	0	x	x	x	x	x
1	0	1	0	0	x	x	x	x	x
1	0	1	1	0	x	x	x	x	x
1	1	0	0	0	x	x	x	x	x
1	1	0	1	0	x	x	x	x	x

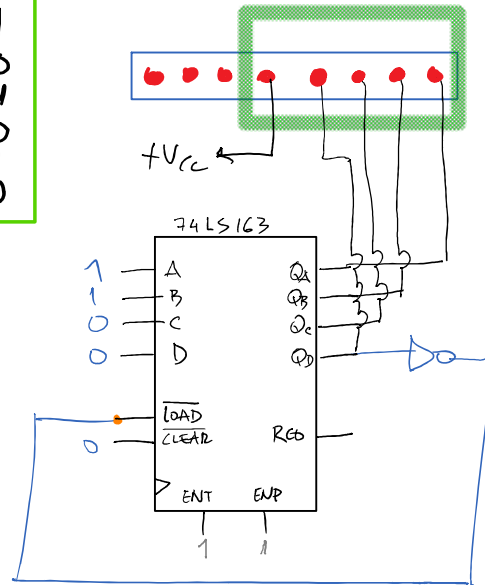


1	0	0	1	0	x	x	x	x	x
1	0	1	0	0	x	x	x	x	x
1	0	1	1	0	x	x	x	x	x
1	1	0	0	0	x	x	x	x	x
1	1	0	1	0	x	x	x	x	x
1	1	1	0	0	x	x	x	x	x
1	1	1	1	1	x	x	x	x	x

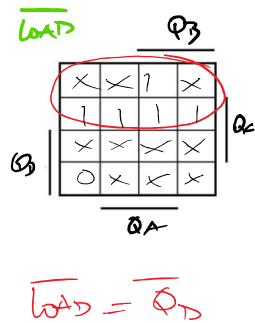


..., 19, 20, 21, 22, 23, 24, 19, ...

19	1	0011
20	1	0100
21	1	0101
22	1	0110
23	1	0111
24	1	1000



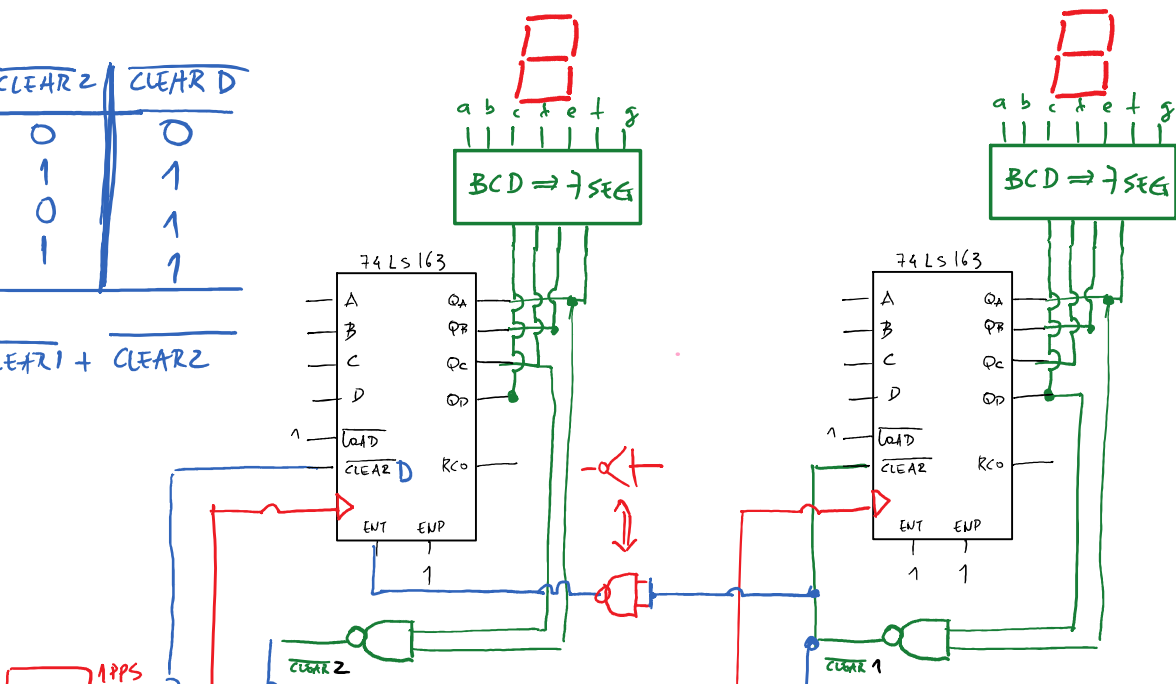
QD	QC	QB	QA	RCO	LOAD
0	0	0	0	0	x
0	0	0	1	0	x
0	0	1	0	0	x
0	0	1	1	0	1
0	1	0	0	0	1
0	1	0	1	0	1
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	0
1	0	0	1	0	x
1	0	1	0	0	x
1	0	1	1	0	x
1	1	0	0	0	x
1	1	0	1	0	x
1	1	1	0	0	x
1	1	1	1	1	x

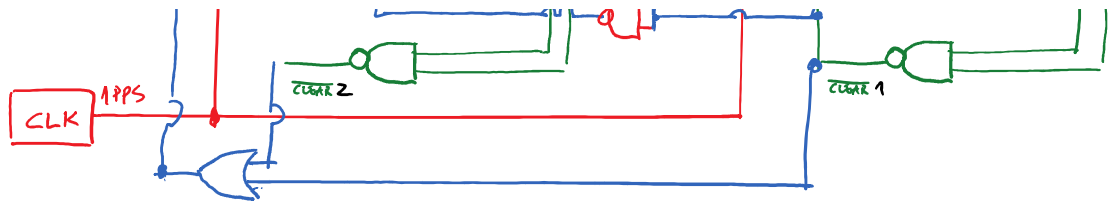


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CLEAR1	CLEAR2	CLEAR D
0	0	0
0	1	1
1	0	1
1	1	1

$CLEAR D = CLEAR1 + CLEAR2$





QD	QC	QB	QA	RCO	CLEAR2	
0	0	0	0	0	1	
0	0	0	1	0	1	
0	0	1	0	0	1	
0	0	1	1	0	1	
0	1	0	0	0	1	
0	1	0	1	0	0	
0	1	1	0	0	x	
0	1	1	1	0	x	
1	0	0	0	0	x	
1	0	0	1	0	x	
1	0	1	0	0	x	
1	0	1	1	0	x	
1	1	0	0	0	x	
1	1	0	1	0	x	
1	1	1	0	0	x	
1	1	1	1	0	x	
1	1	1	1	1	x	

