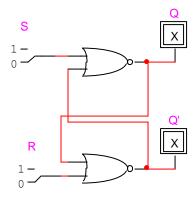


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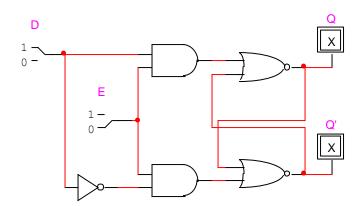
<u>Lab #11:</u>

Exercise #1:



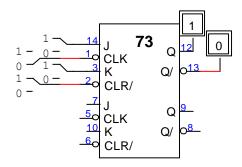
S	R	ď	Q	Comment
0	0	X	X	No Change/Previous State
0	1	1	0	Set State/Q = 1
1	0	0	1	Reset State/Q = 0
1	1	X	Х	Invalid State

Exercise #2:



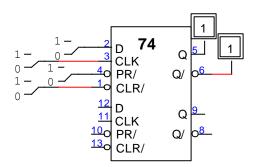
E	D	Q	ď	Comment
0	0	X	Х	No Change/Previous State
0	1	X	Х	No Change/Previous State
1	0	1	0	Set State/Q = 1
1	1	0	1	Reset State/Q = 0

Exercise #3:



J	K	CLK'	CLR'	Q	Q'	Comment
-	-	ı	\downarrow	0	1	Defined State
0	0	\rightarrow	↑	Х	Х	No Change
0	1	\rightarrow	↑	0	1	Reset State/Q = 0
1	0	\rightarrow	↑	1	0	Set State/Q = 1
1	1	\rightarrow	↑	Х	Х	Toggle State/Q↔Q′

Exercise #4:



D	CLK	PR	CLR	Q	Q'	Comment
-	-	\	\	1	1	Error State/PR and CLR should not be on at same time
-	-	↑	↓	0	1	Defined State/Set Q = 0
-	-	\downarrow	↑	1	0	Defined State/Set Q = 1
0	\downarrow	\uparrow	\uparrow	Х	X	No Change
0	↑	↑	↑	0	1	Reset State/Q = 0
1	1	1	1	1	0	Set State/Q = 1