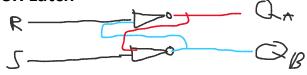
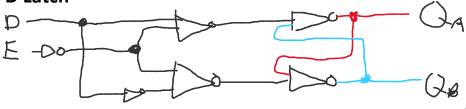
SR Latch



S	R	I	Qa	Q _b
0	0	I	No Change	No Change
0	1	I	0	1
1	0	I	1	0
1	1	I	Prevent This	Prevent This

D Latch



E Stands For Enable

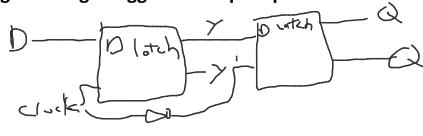
D Stands For Data

E	D	I	Qa	Qb
0	X	I	NC	NC
1	0	I	0	1
1	1	ı	1	0

Clock Cycle Negative Edge

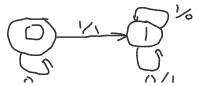


Negative Edge Triggered D Flip-Flop



8 Of these together forms an 8 bit register

Sequential 2s Complementor



Ingut / w.tput

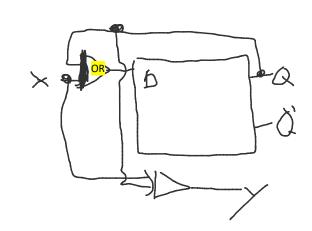
Bochox



Qt	X	I	Q _{t+1}	Υ
0	0	I	0	0
0	1	I	1	1
1	0	I	1	1
1	1		1	0

 $\begin{array}{l}Q_{t+1}\text{: }Q_t\text{+}x\\Y\text{: }Q_t\oplus x\end{array}$

⊕ means exclusive or



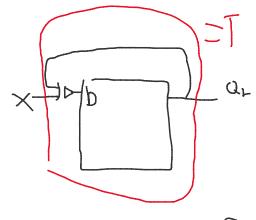
D Flip-Flop

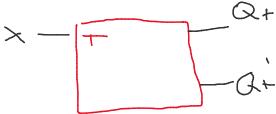
X	Q
0	0
1	1

T Flip-Flop

X	Q
0	No Change
1	Complement

Qt	X		Q _{t+1}
0	0	I	0
0	1	I	1
1	0	I	1
1	1		0





			D Flip-	Flop		T Flip-Flop
Qt	X		Q _{t+1}	Υ	I	I _T
0	0	I	0	0	I	0
0	1		1	1	I	1
1	0		1	1	I	0
1	1		1	0	I	0

Going back to the 2s Complementor, it was simpler to use the D flip flop version than the T Version

