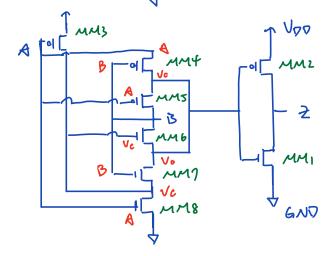
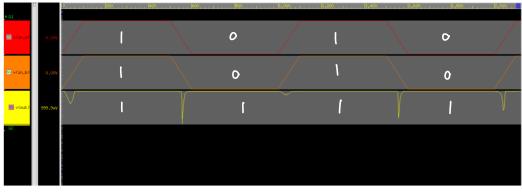


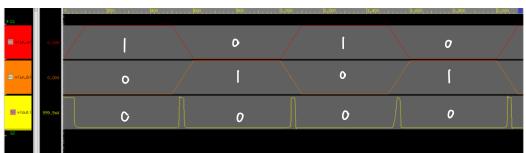
transister - level diagrams:



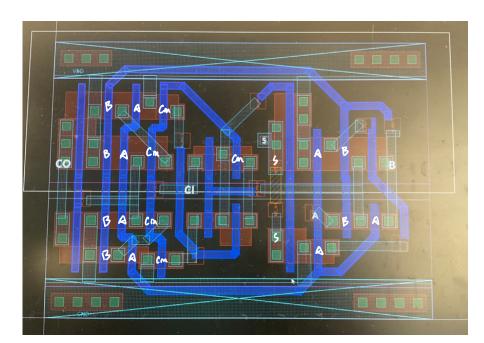
truth table:

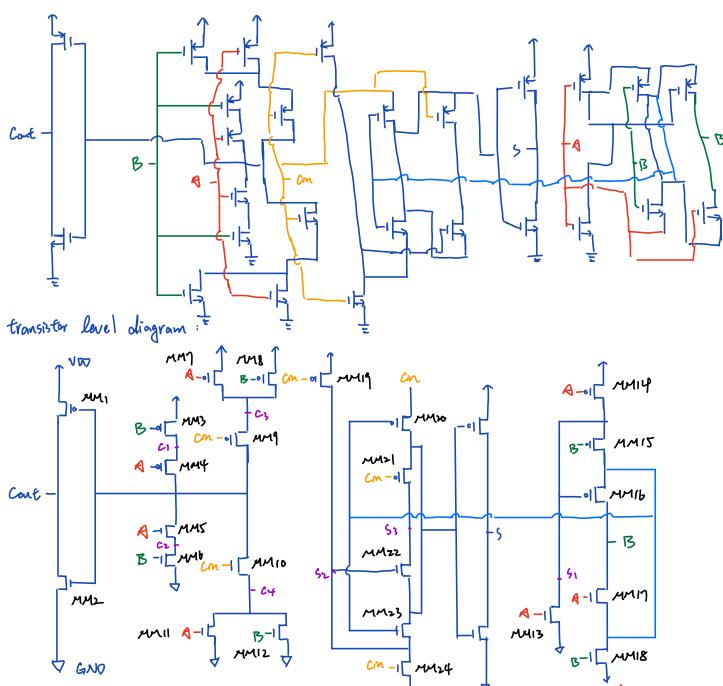
A	B	z
0	0	1
0	1	0
1	0	0
1	1	1

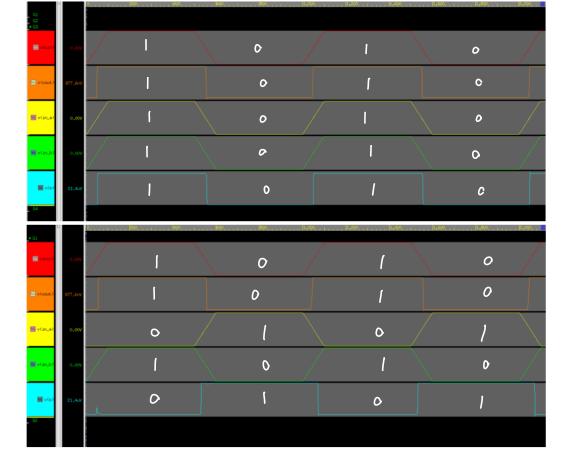


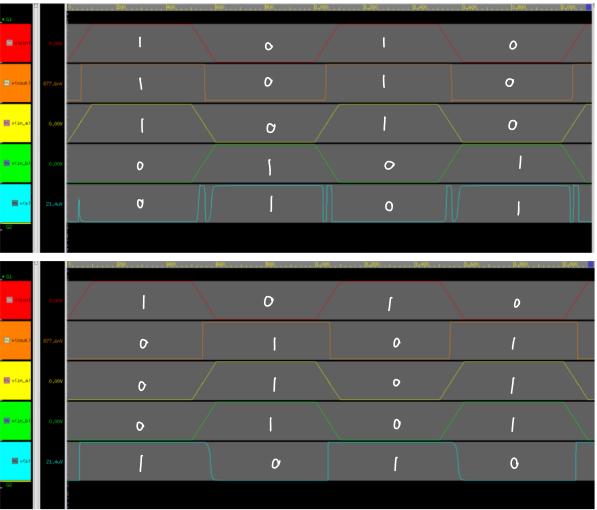


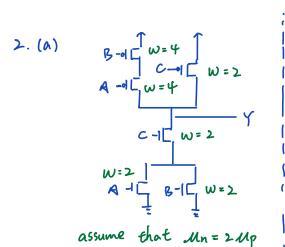
(b) FA

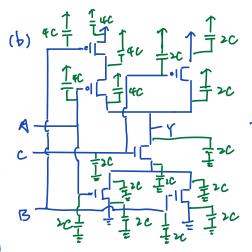


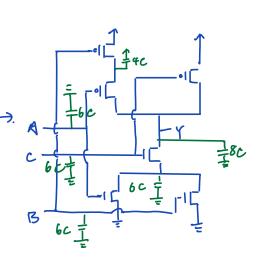












$$t_{pdf} = \frac{R}{2} \cdot bc + (\frac{R}{2} + \frac{R}{2}) \cdot 8c + (\frac{R}{2} + \frac{R}{2}) + c$$

$$= 1 SRC_{**}$$

$$tpdr = \frac{R}{2} \cdot 4c + (\frac{R}{2} + \frac{R}{2})(8c + 6c)$$

= $16RC_{\frac{1}{2}}$