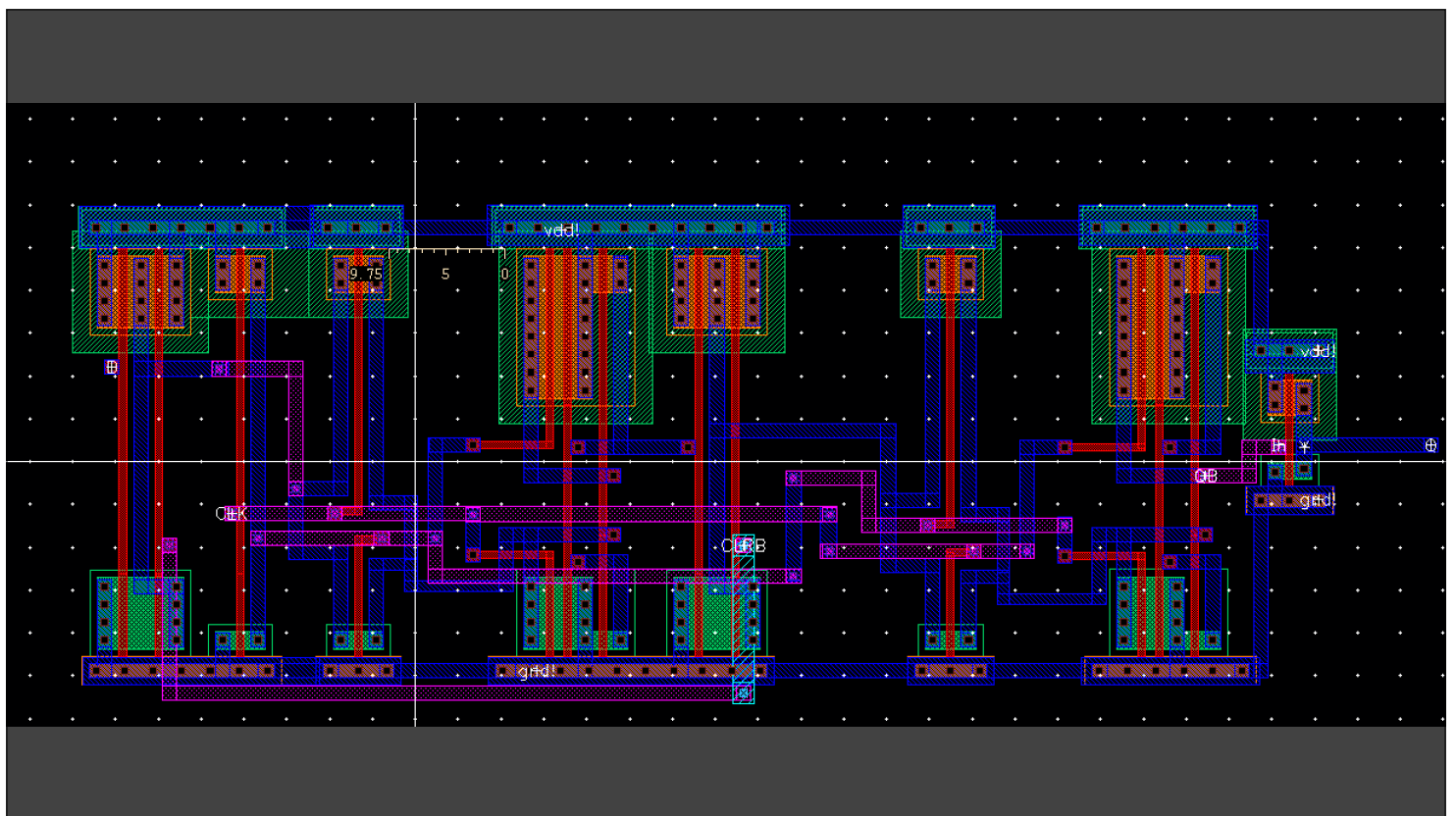
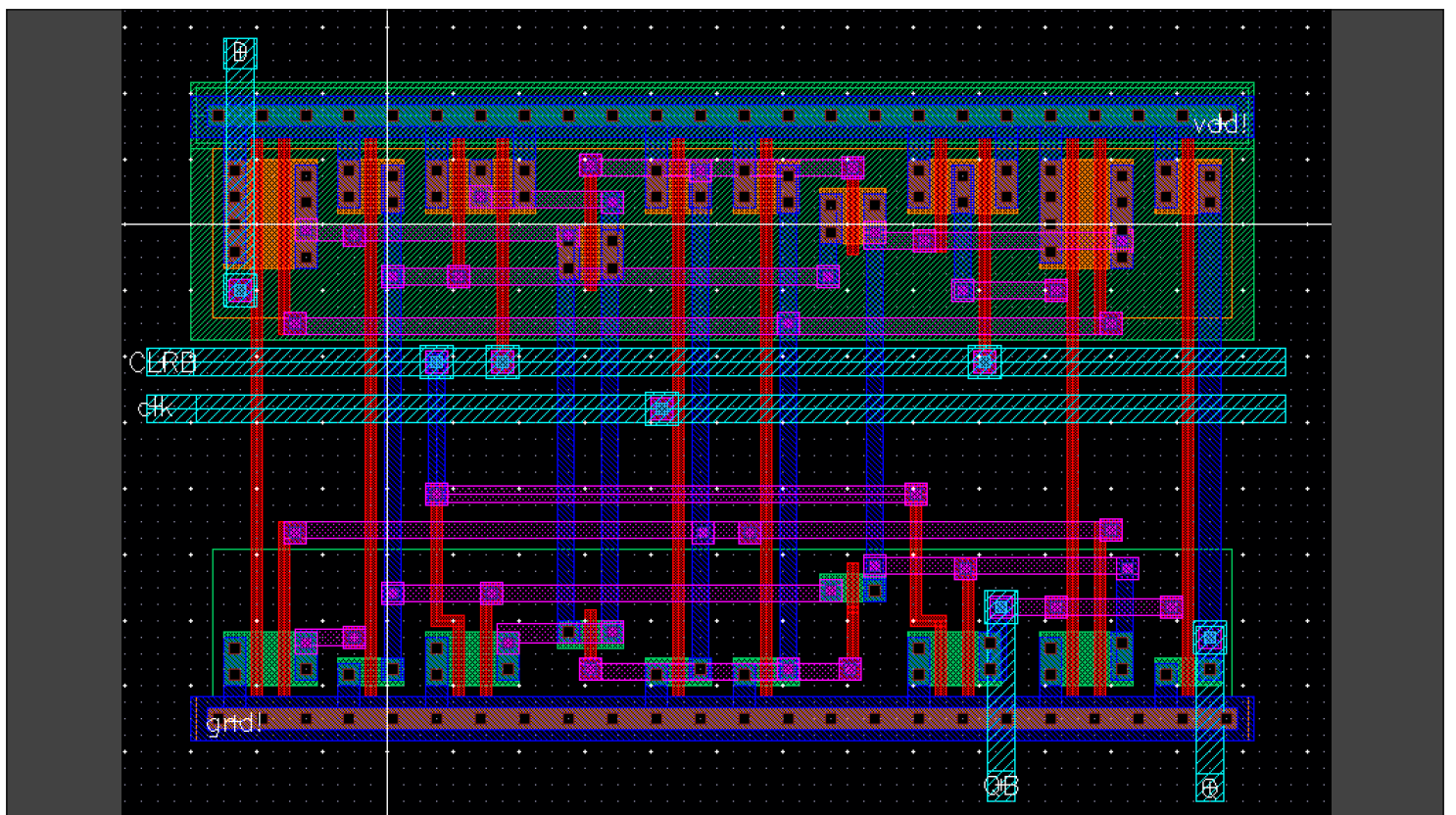
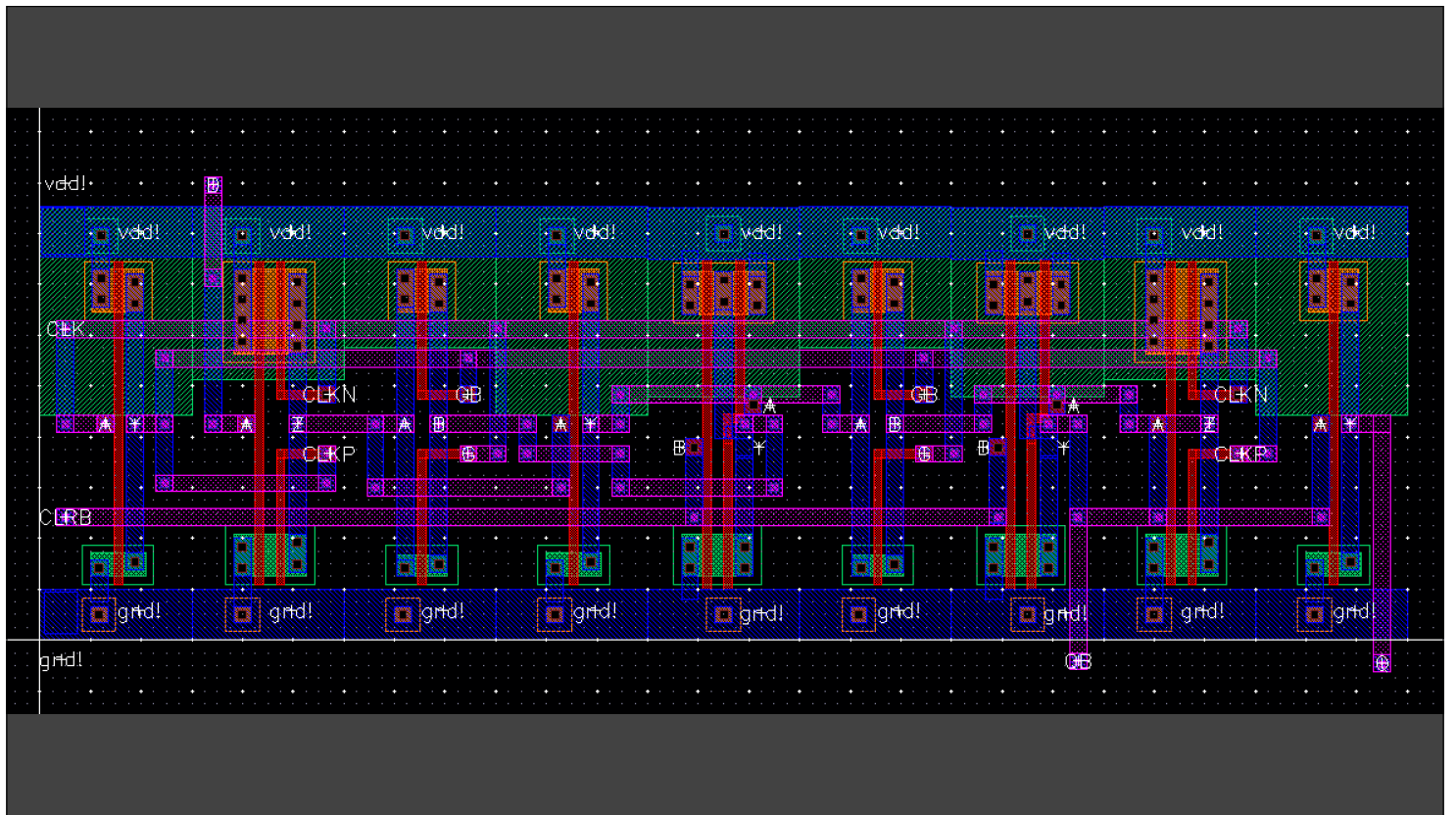
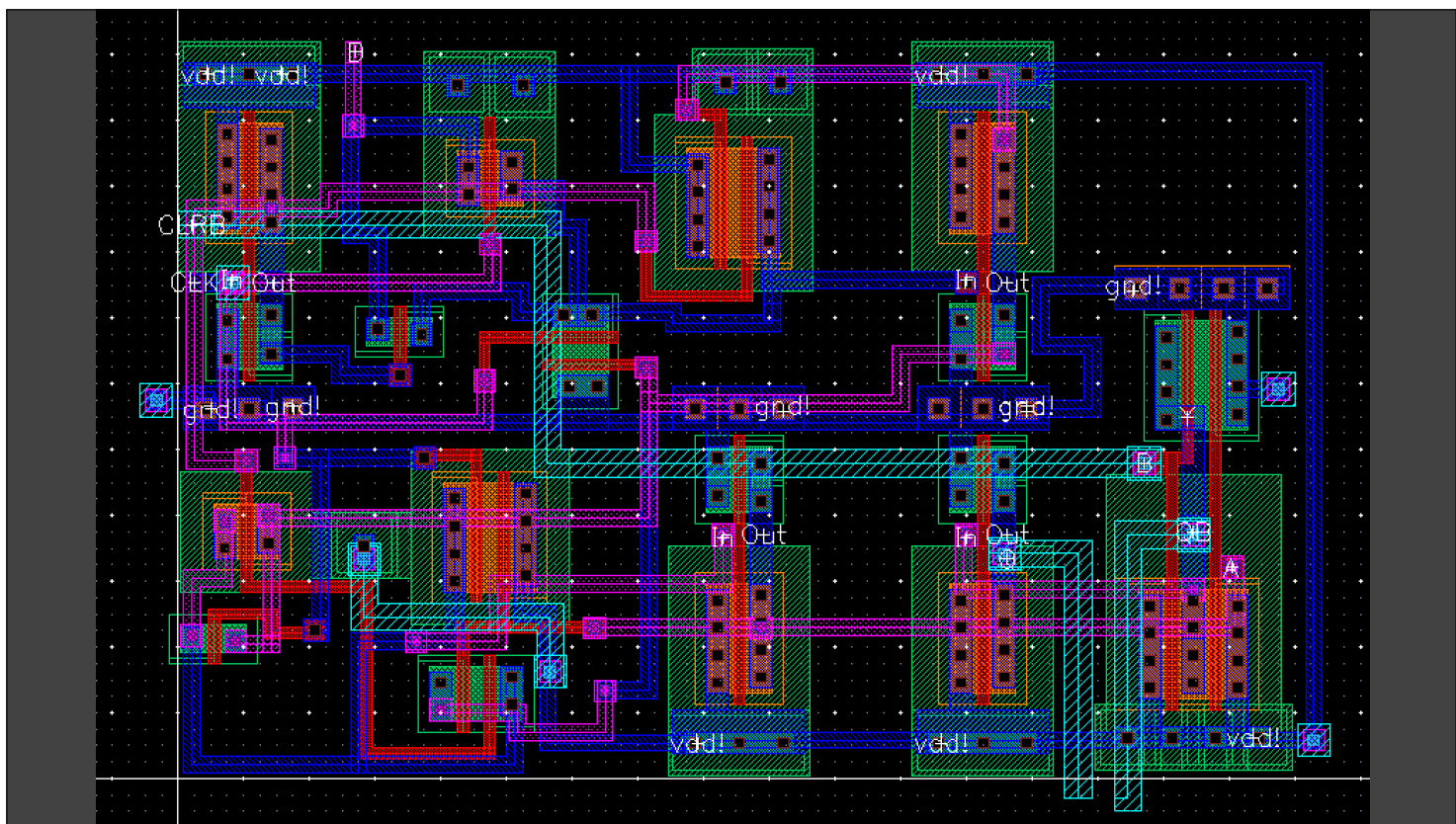
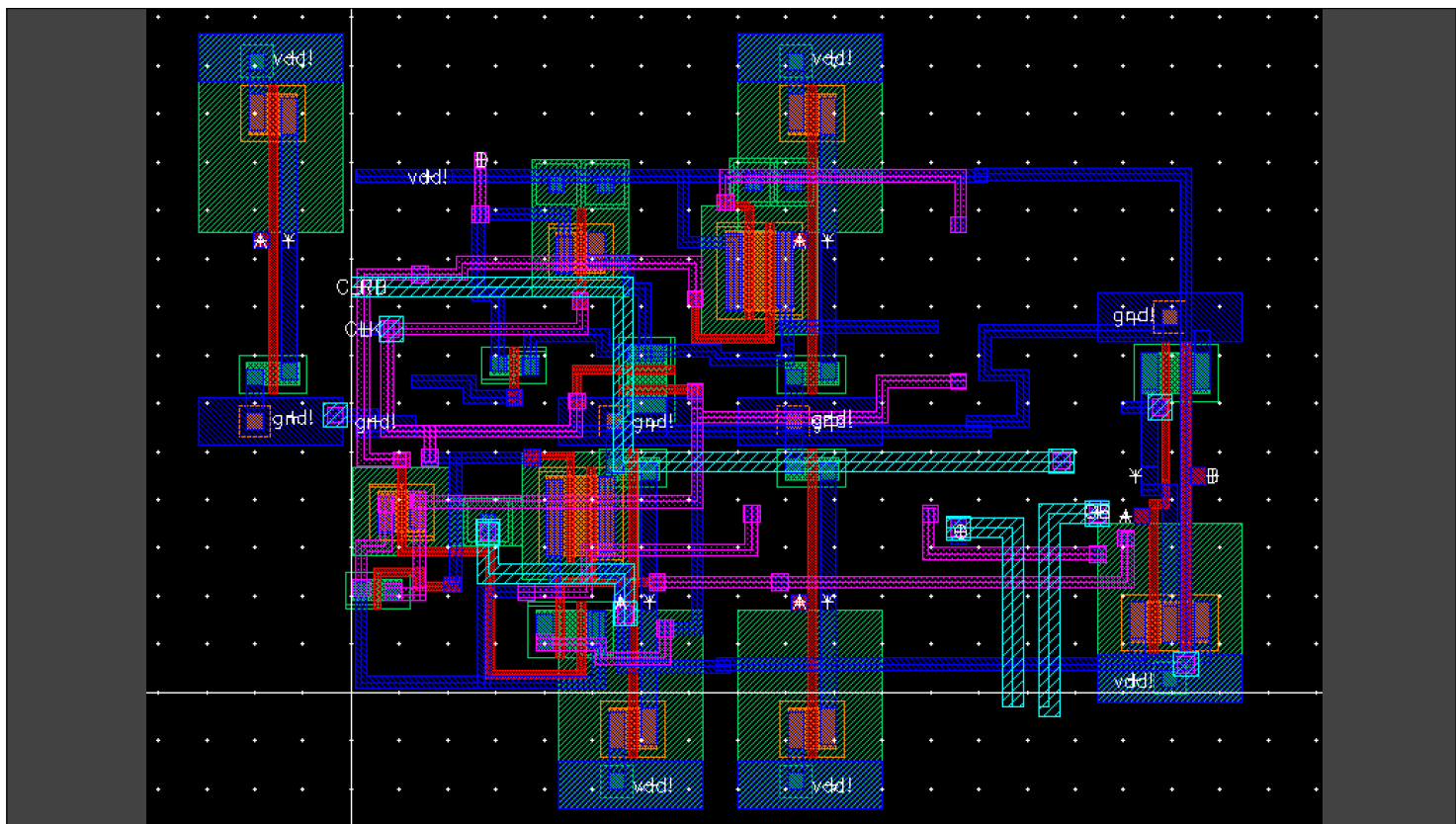
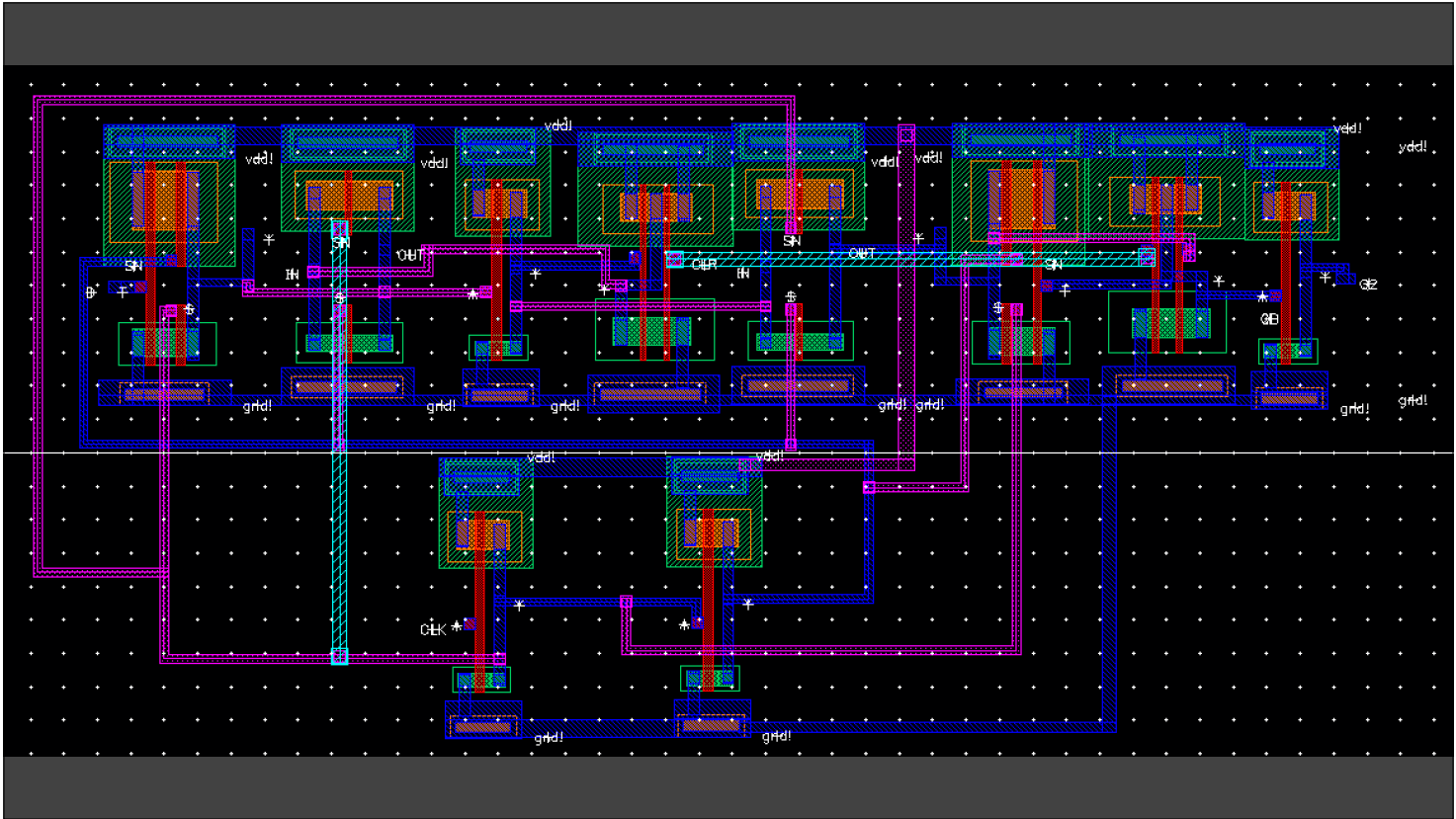
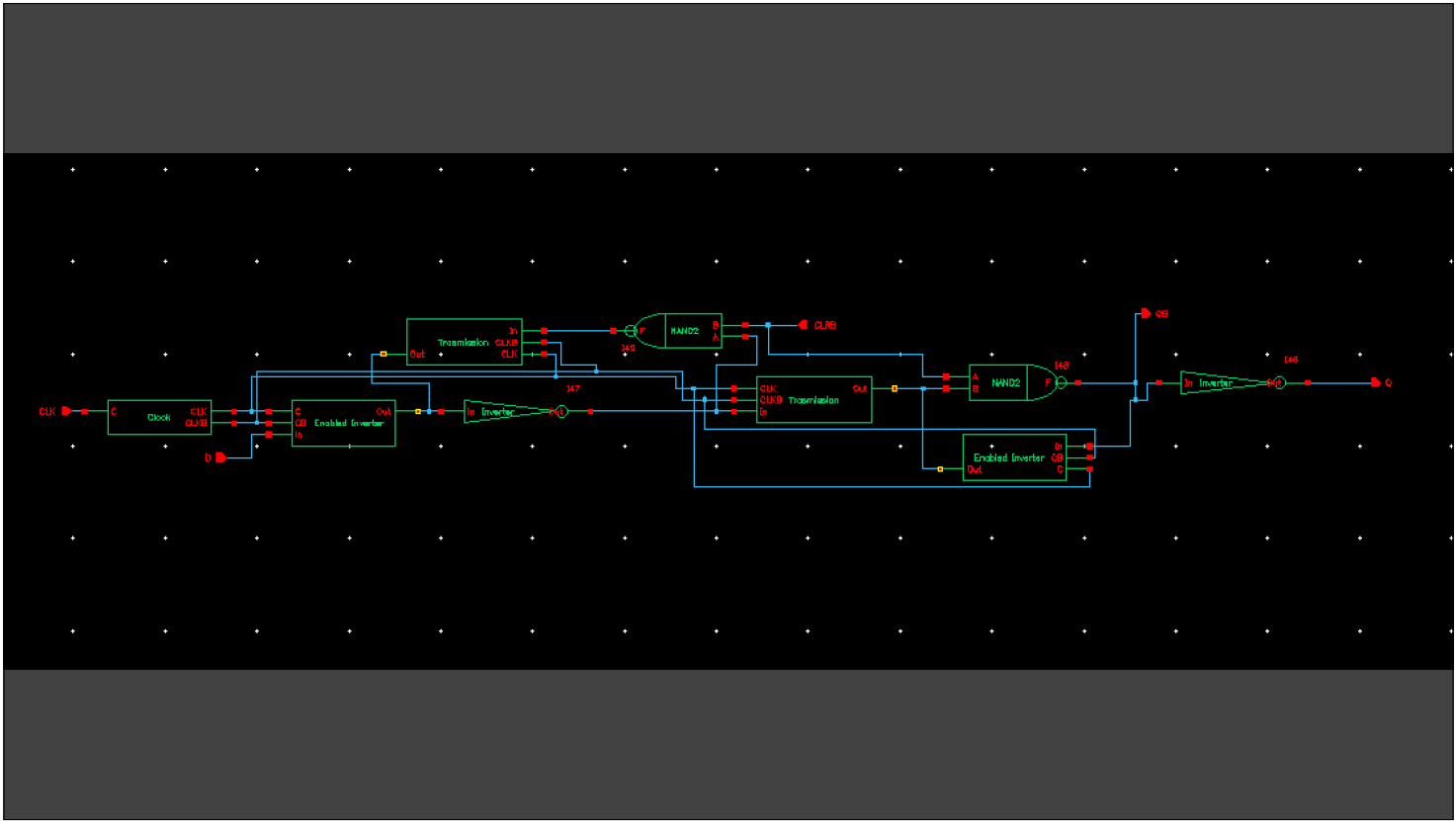


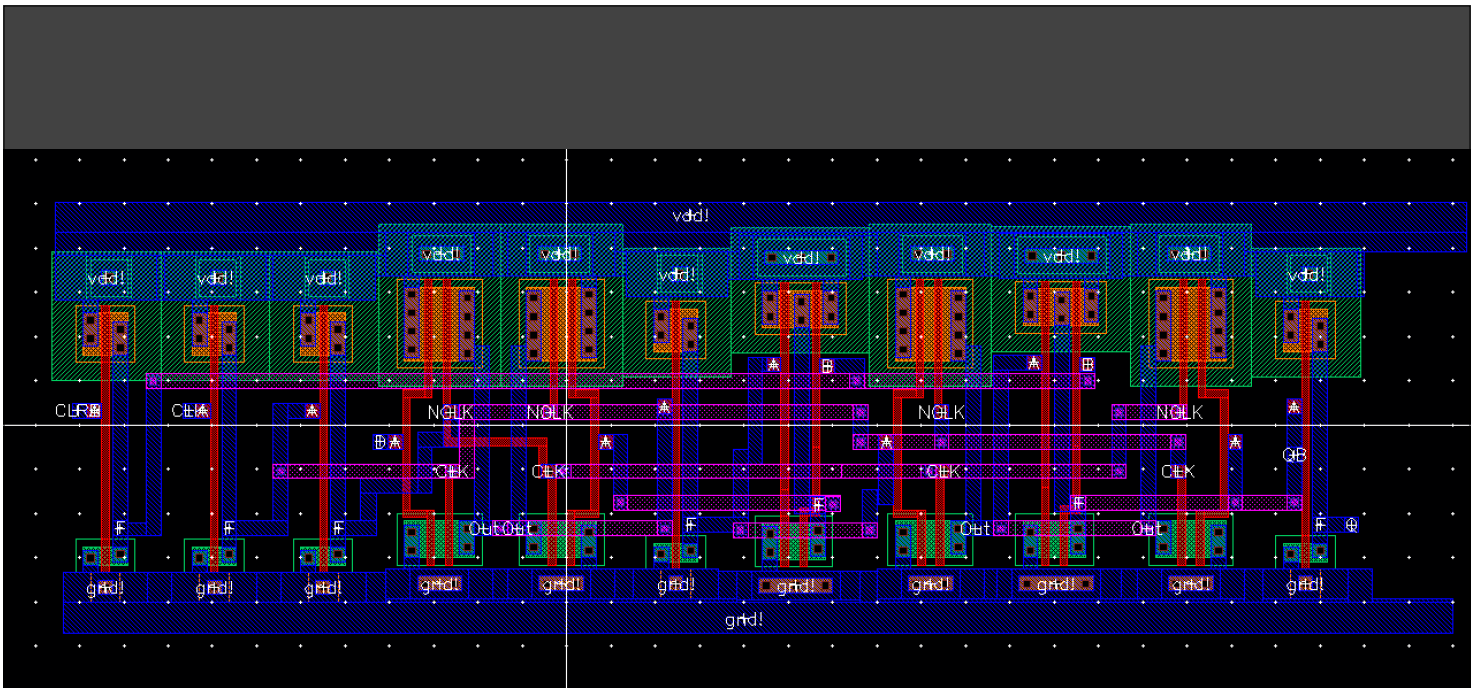
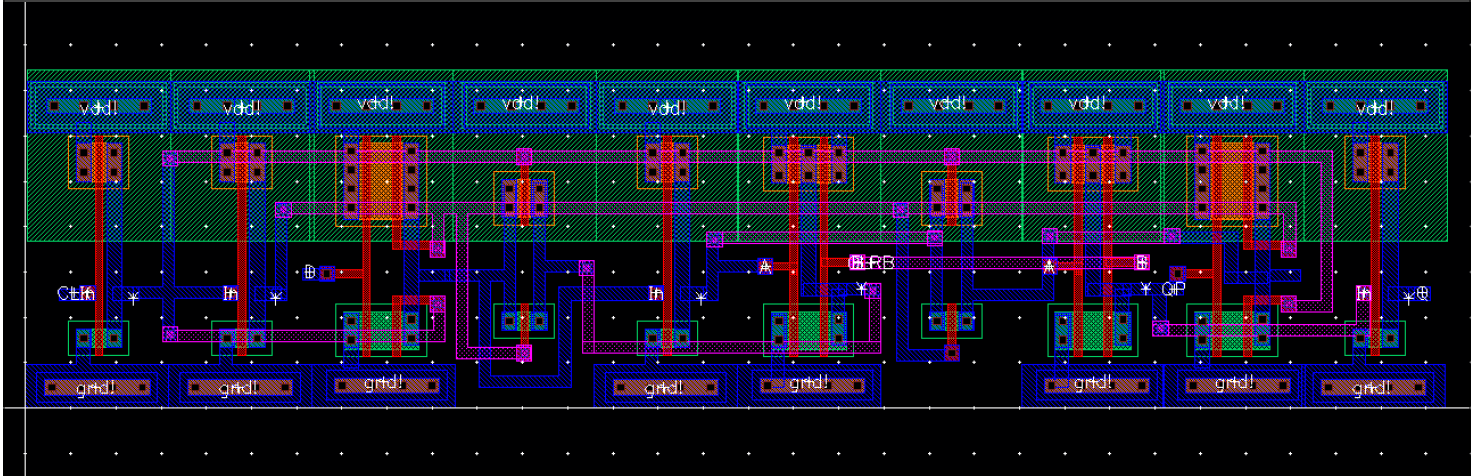
CAD3 DFF

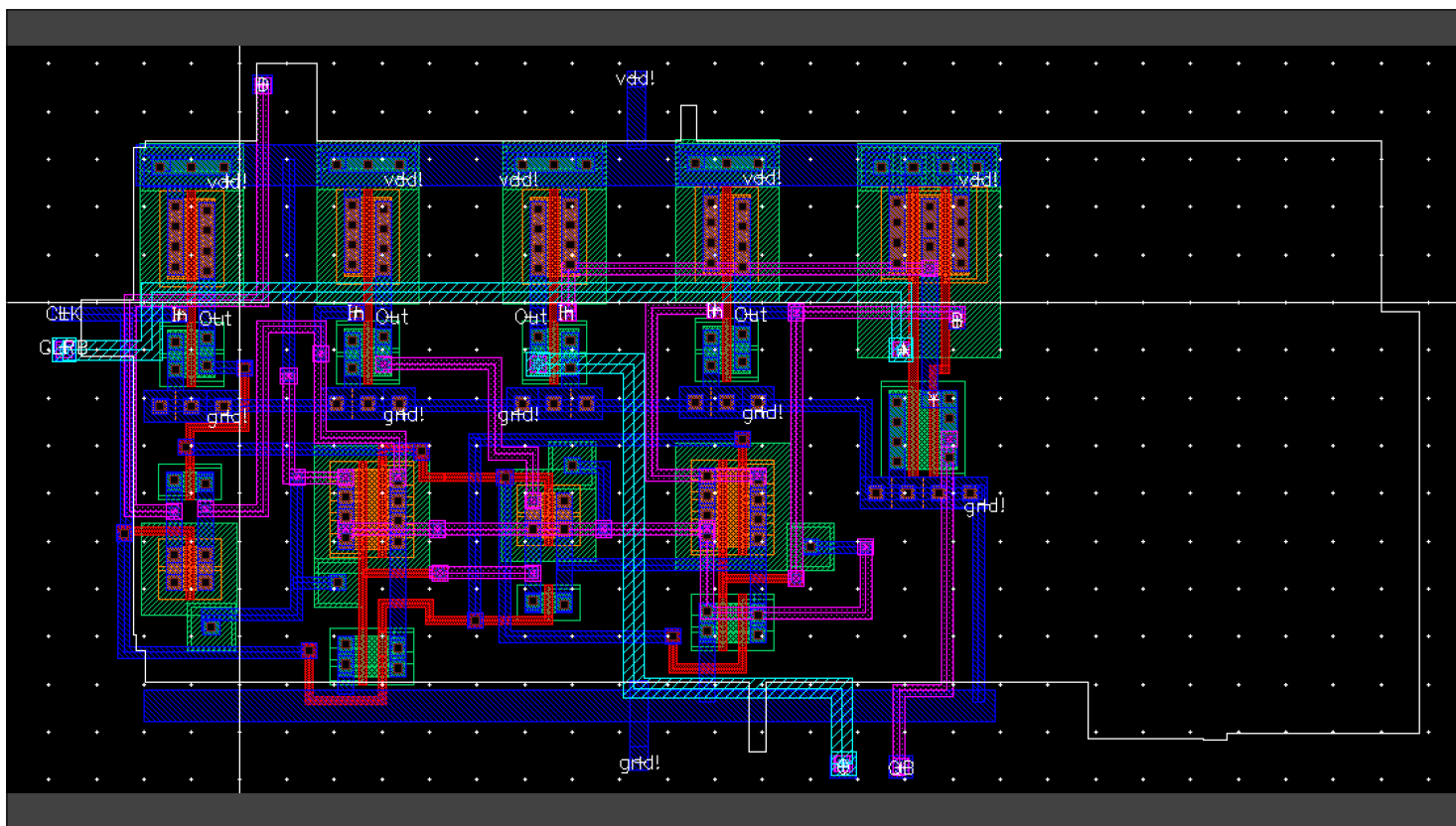
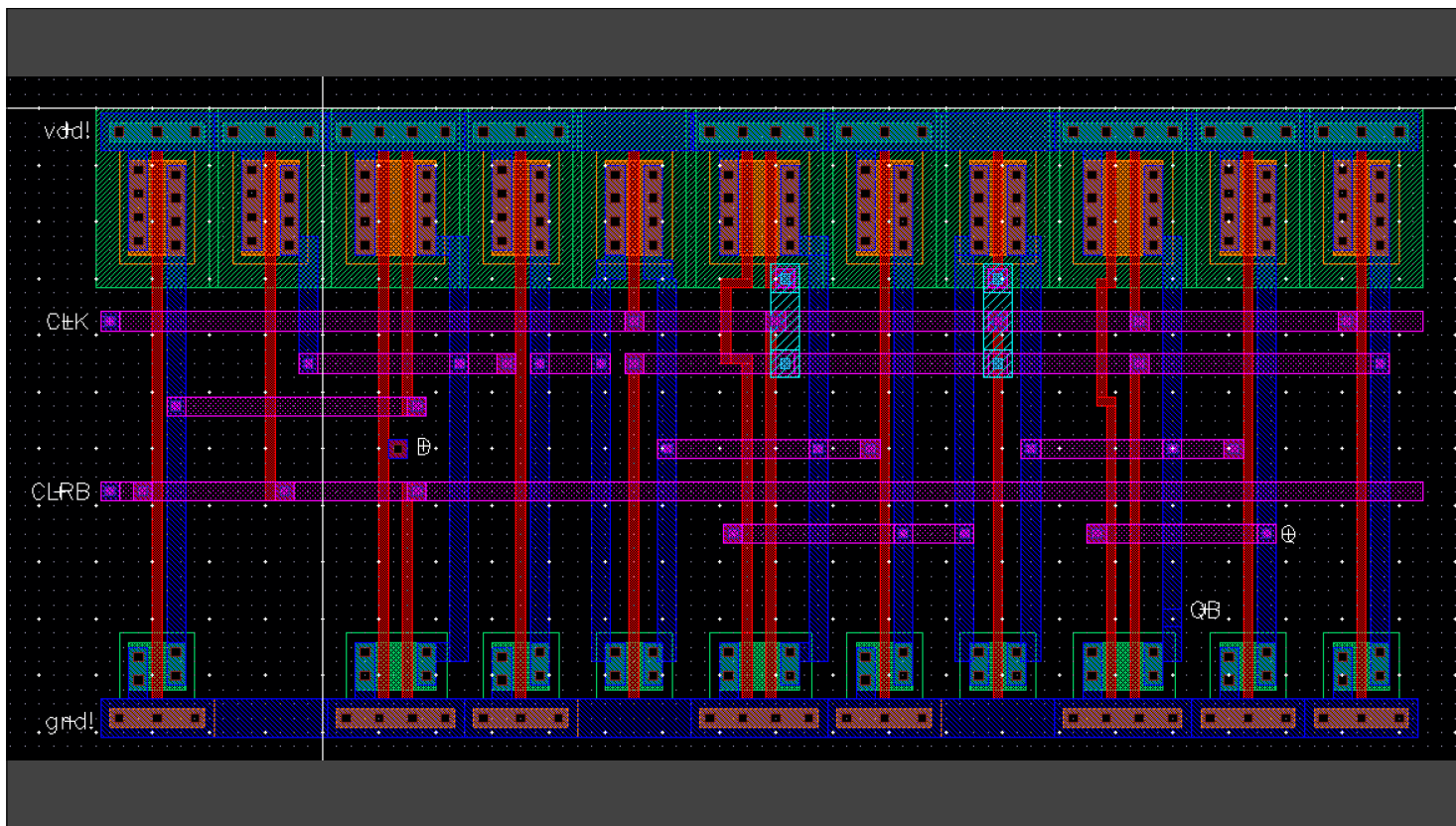


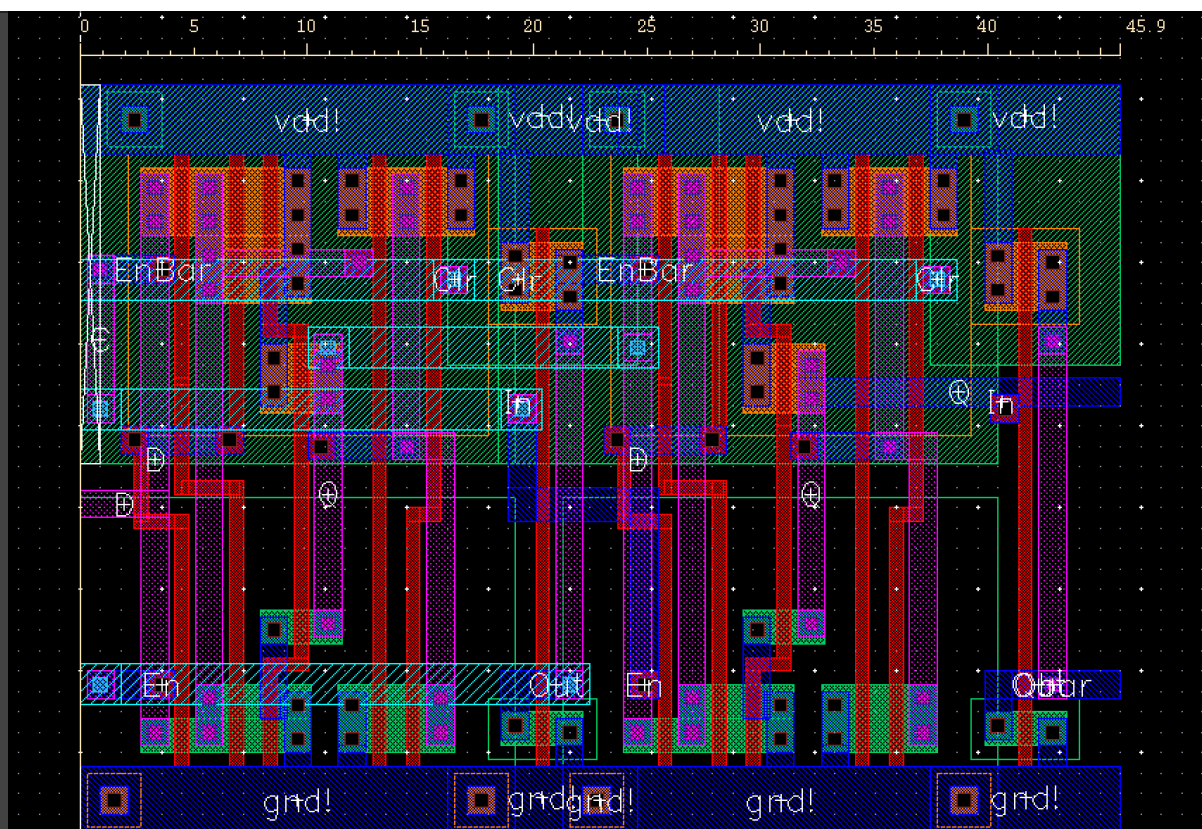
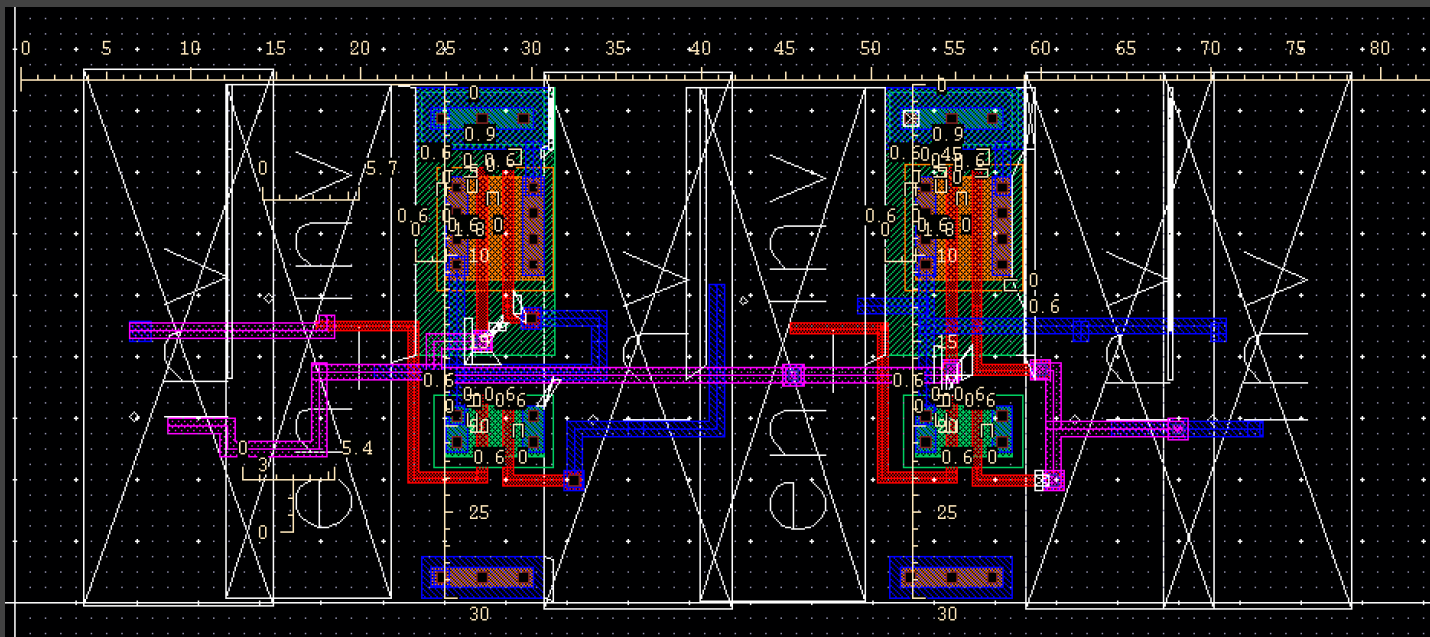


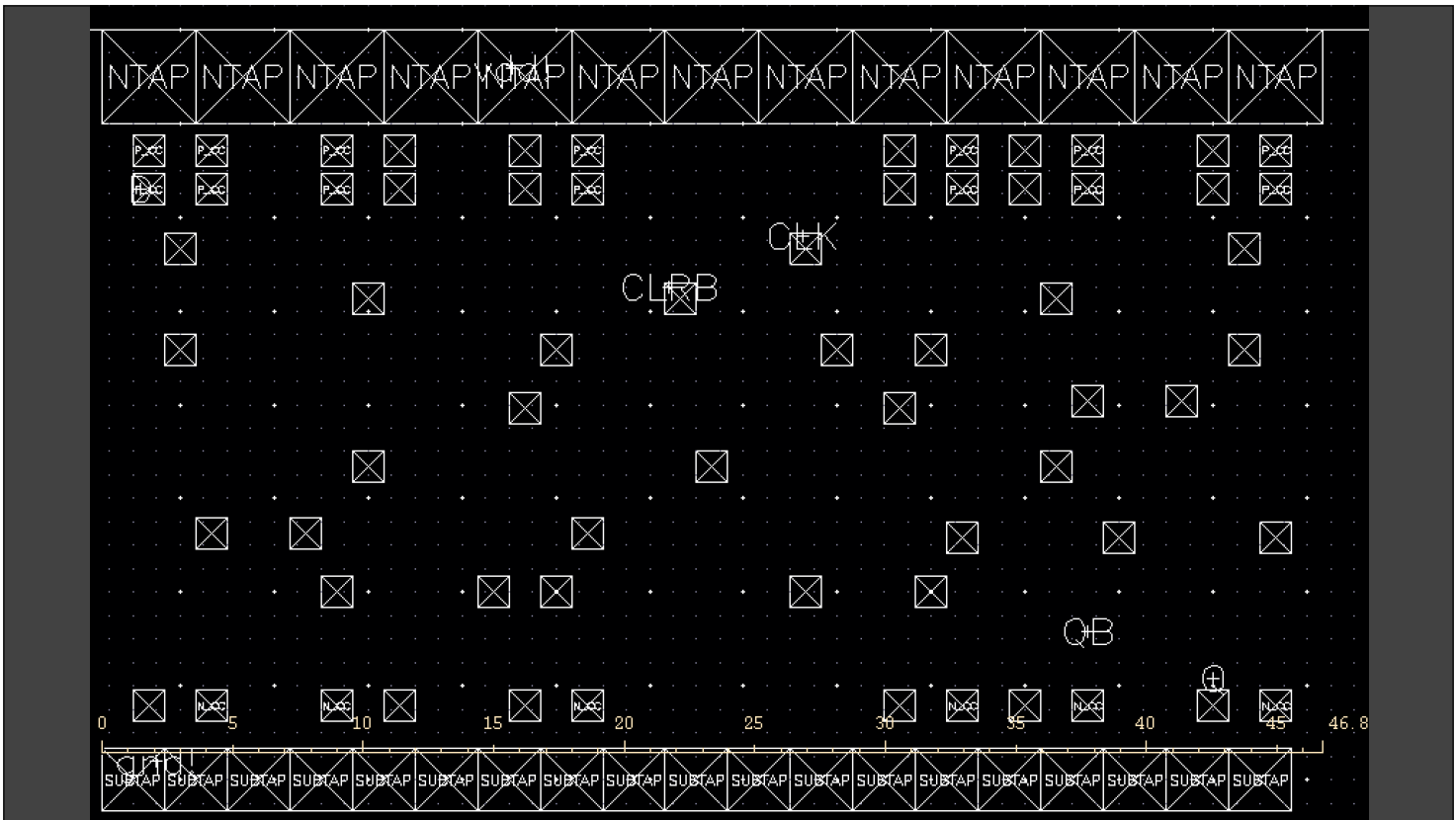
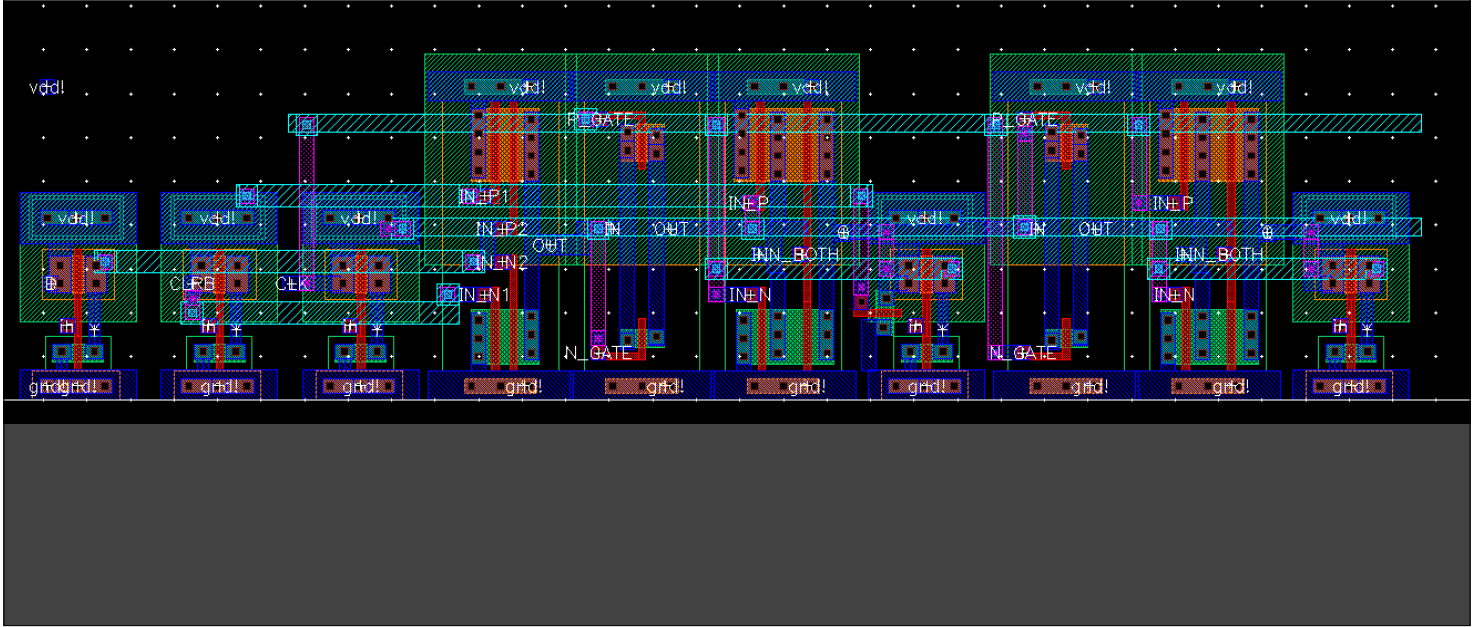


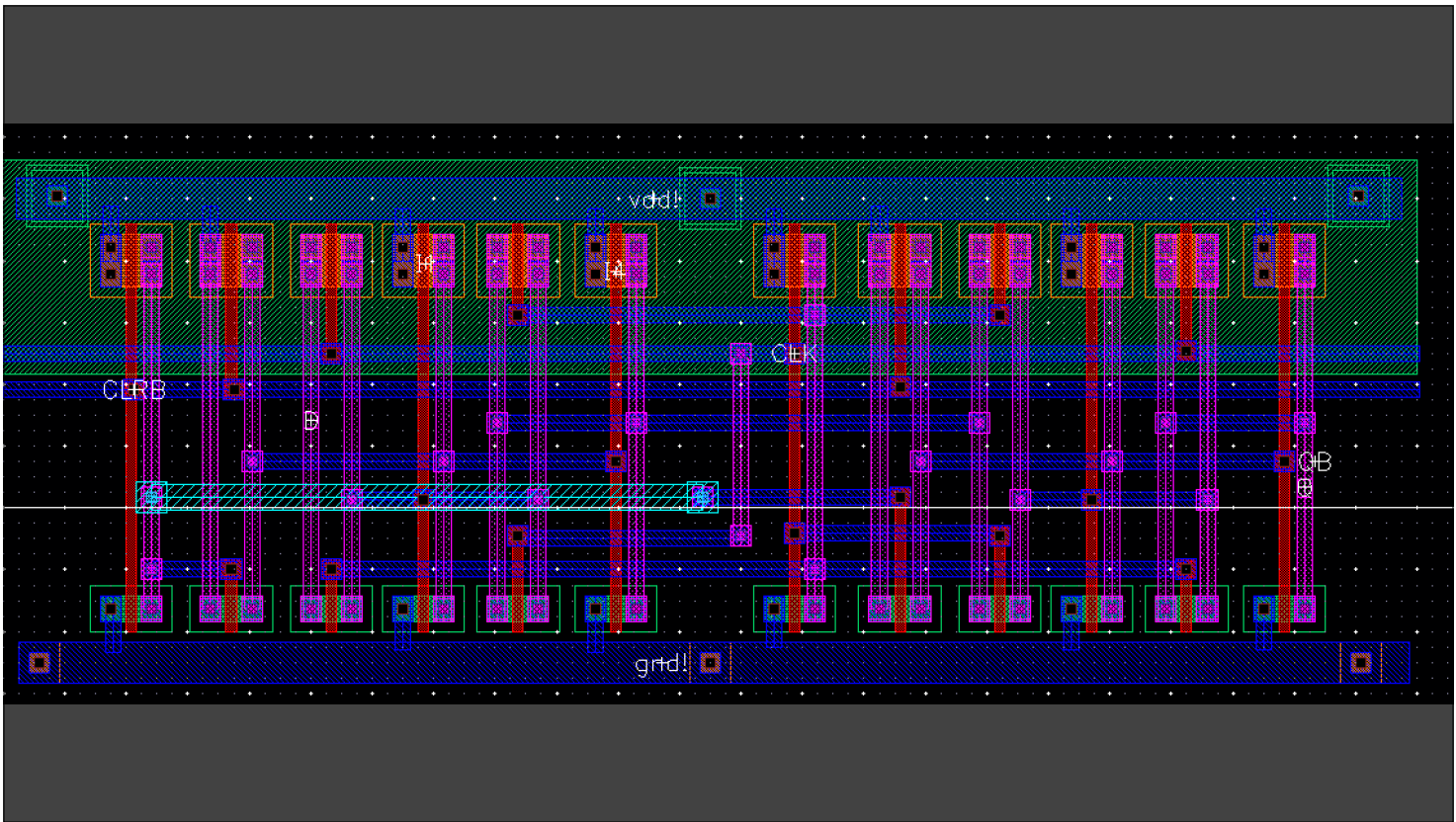
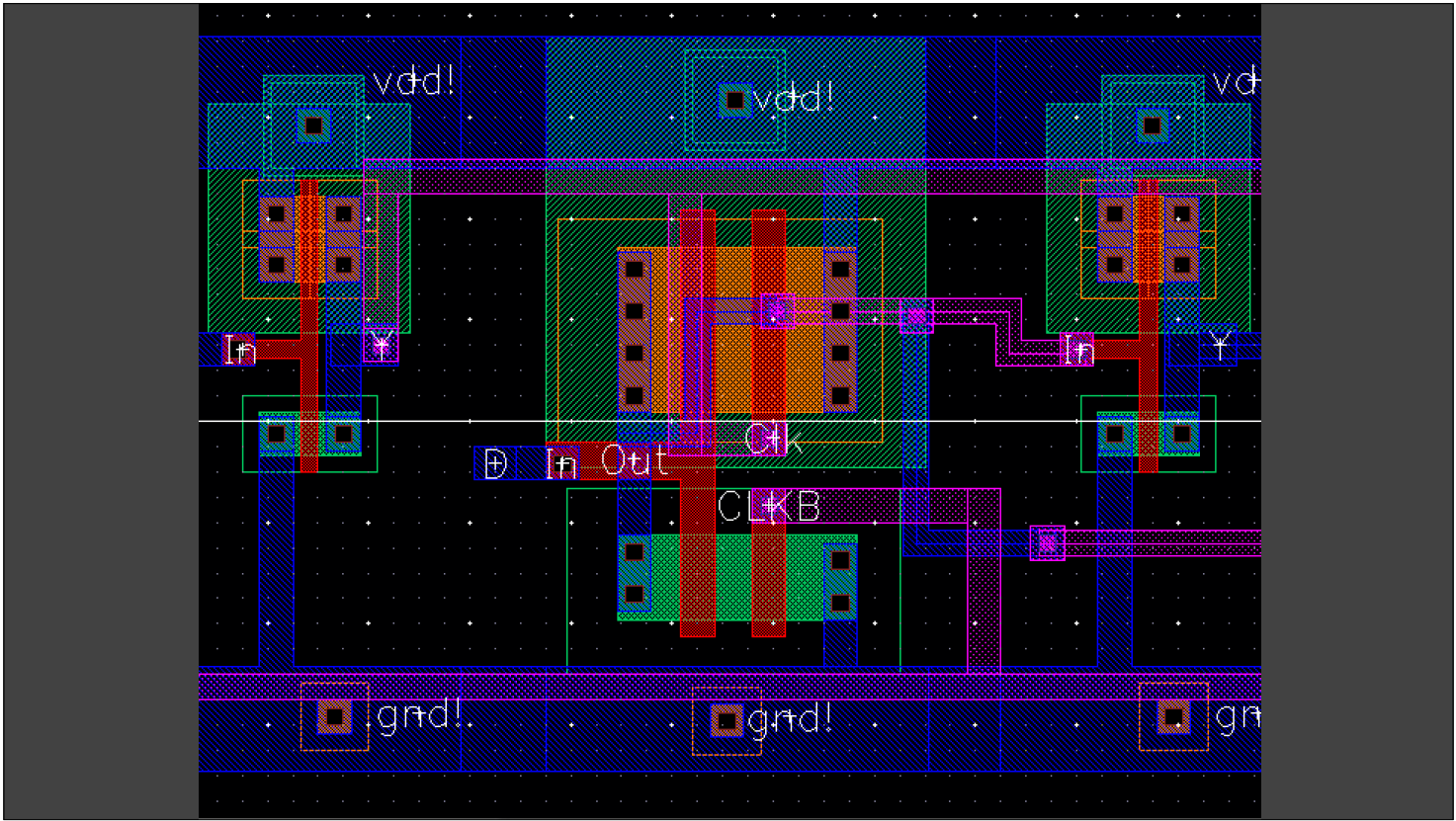


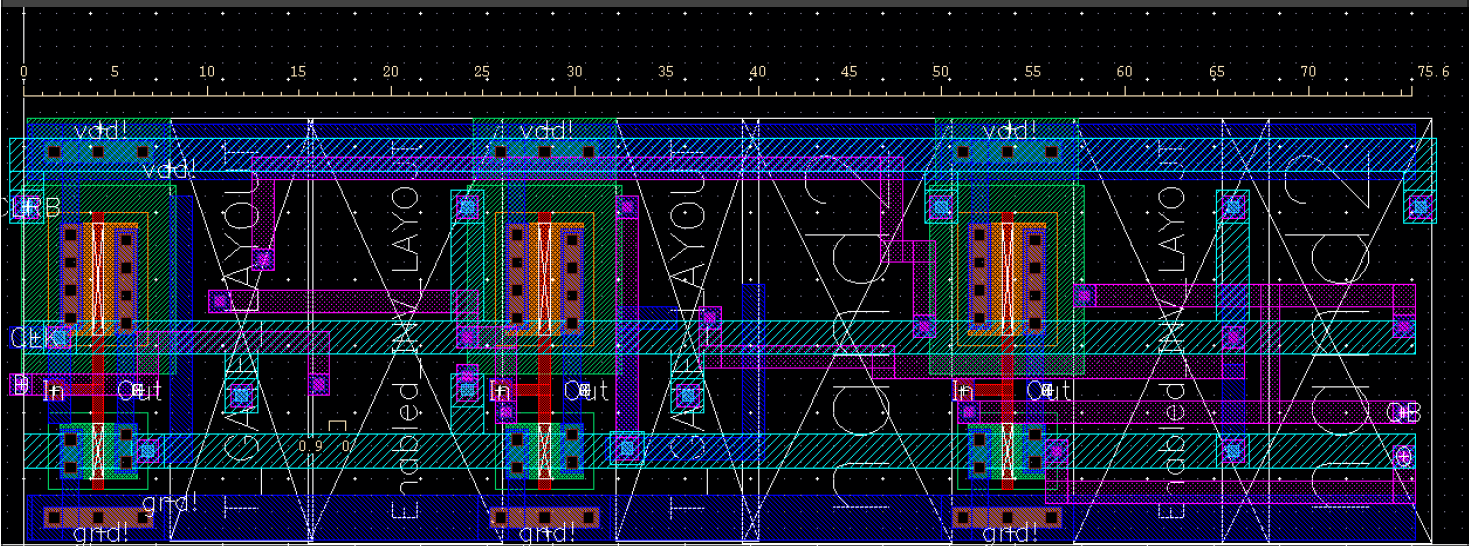
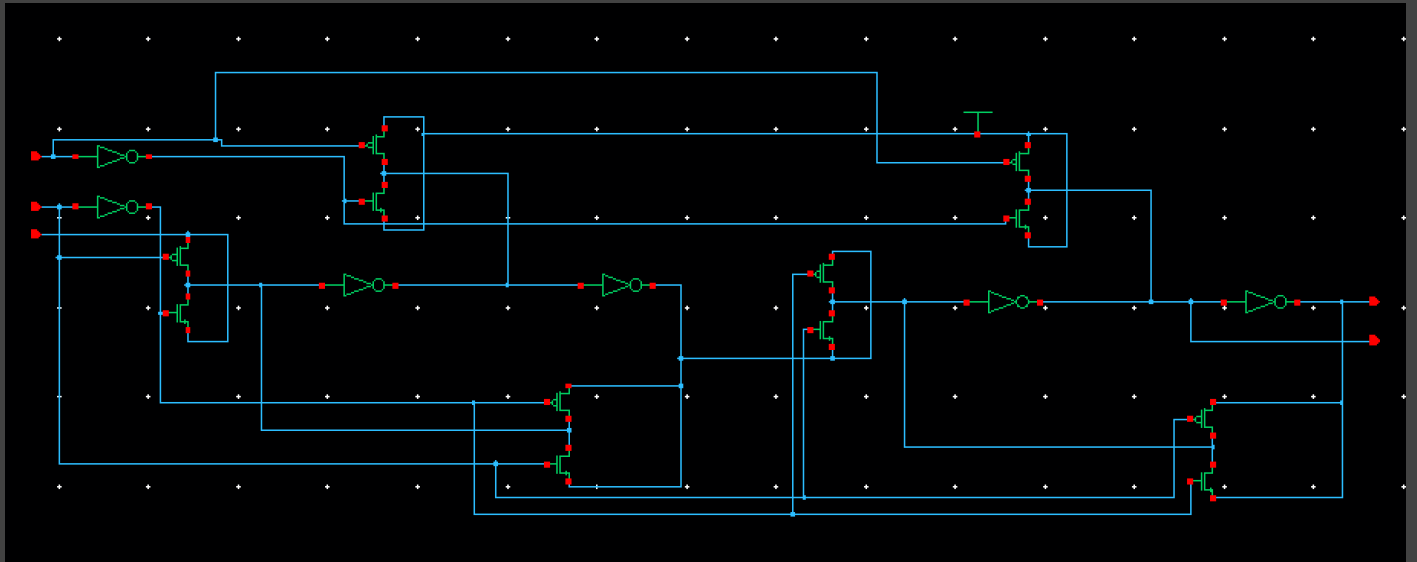


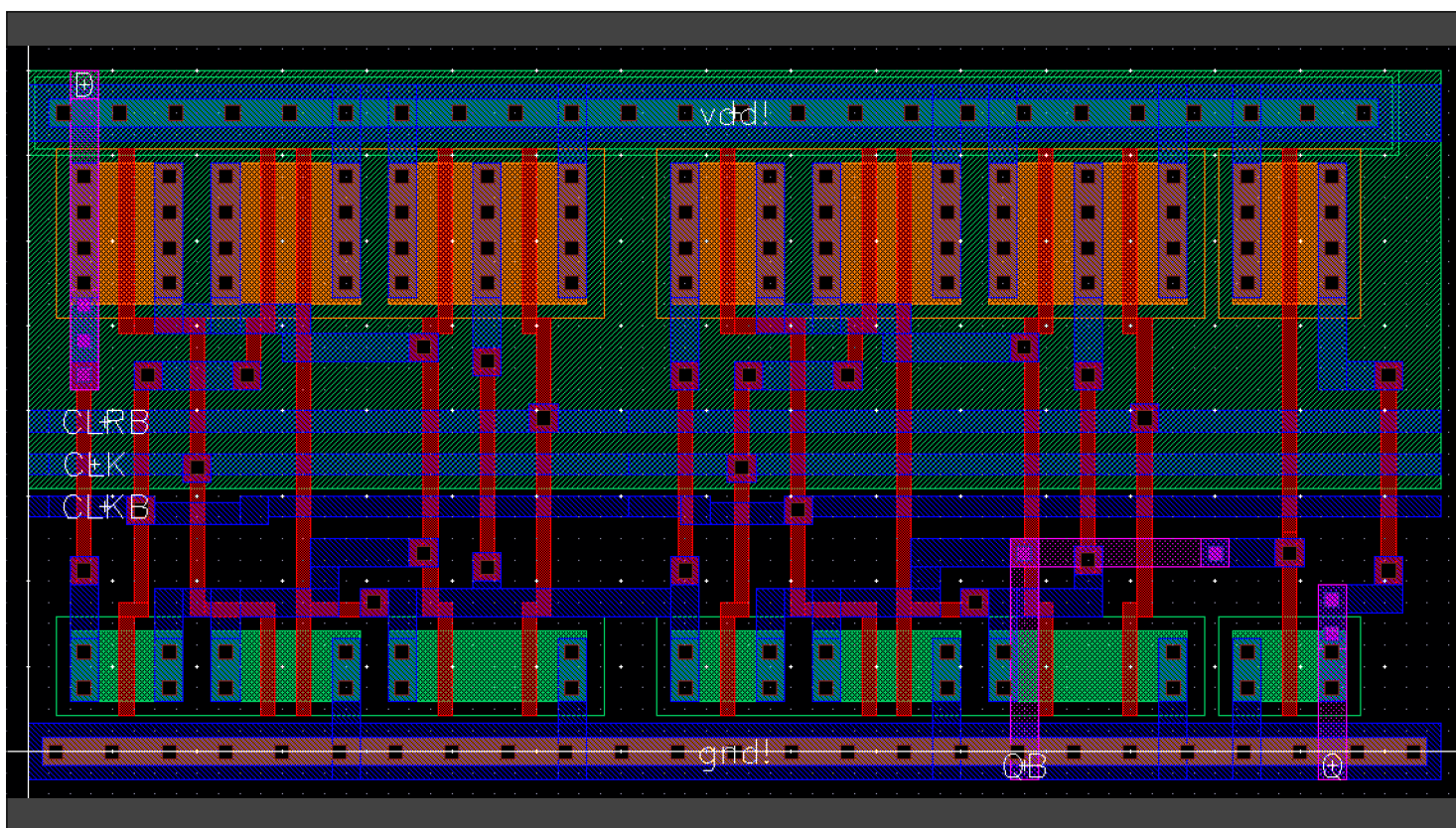
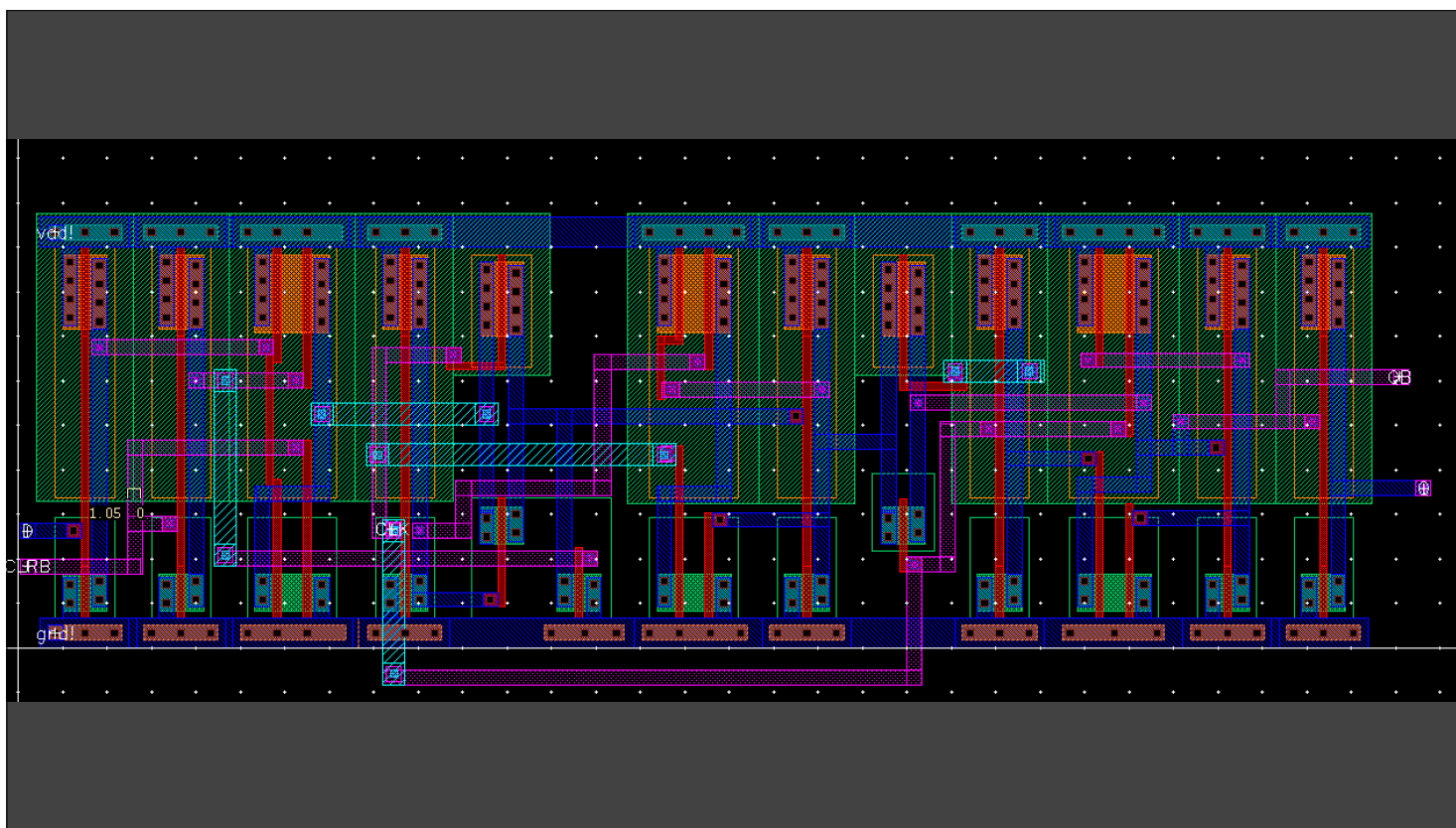


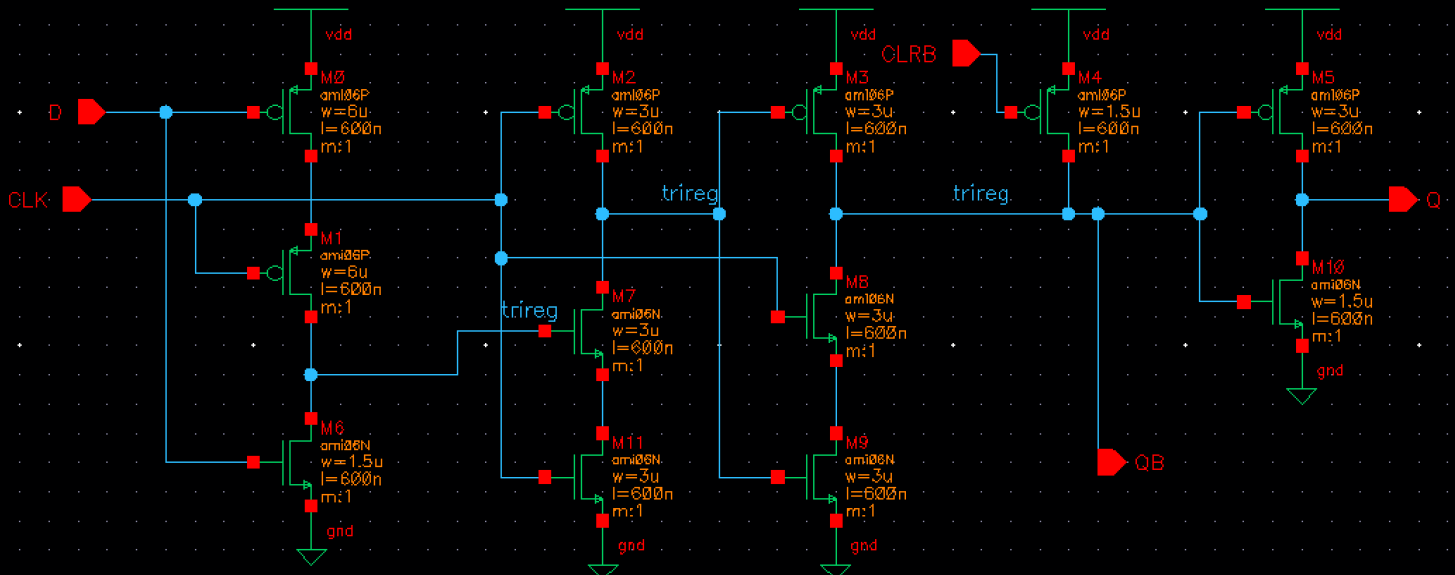






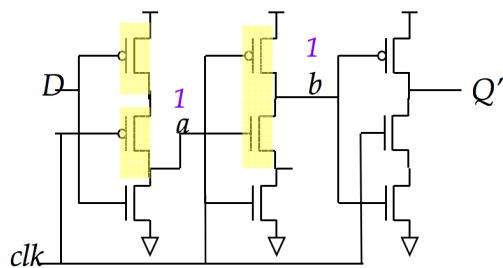




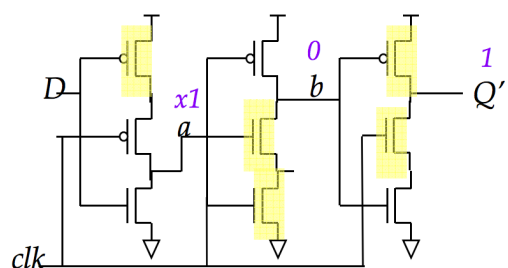


Operation

D=0, clk=0

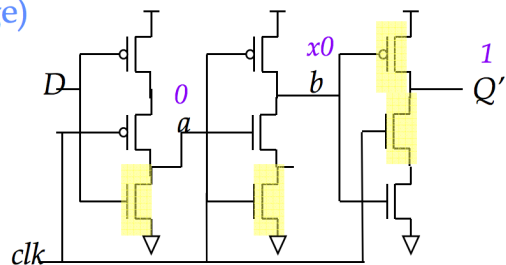


clk → 1



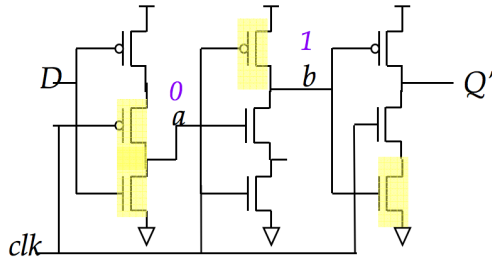
Note: a/b floats high or low (x0, x1)

D → 1, clk=1 (Q' should not change)

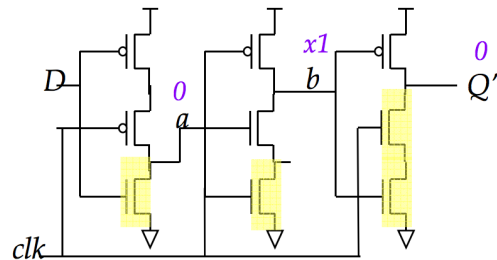


Operation

$D=1, \text{clk}=0$

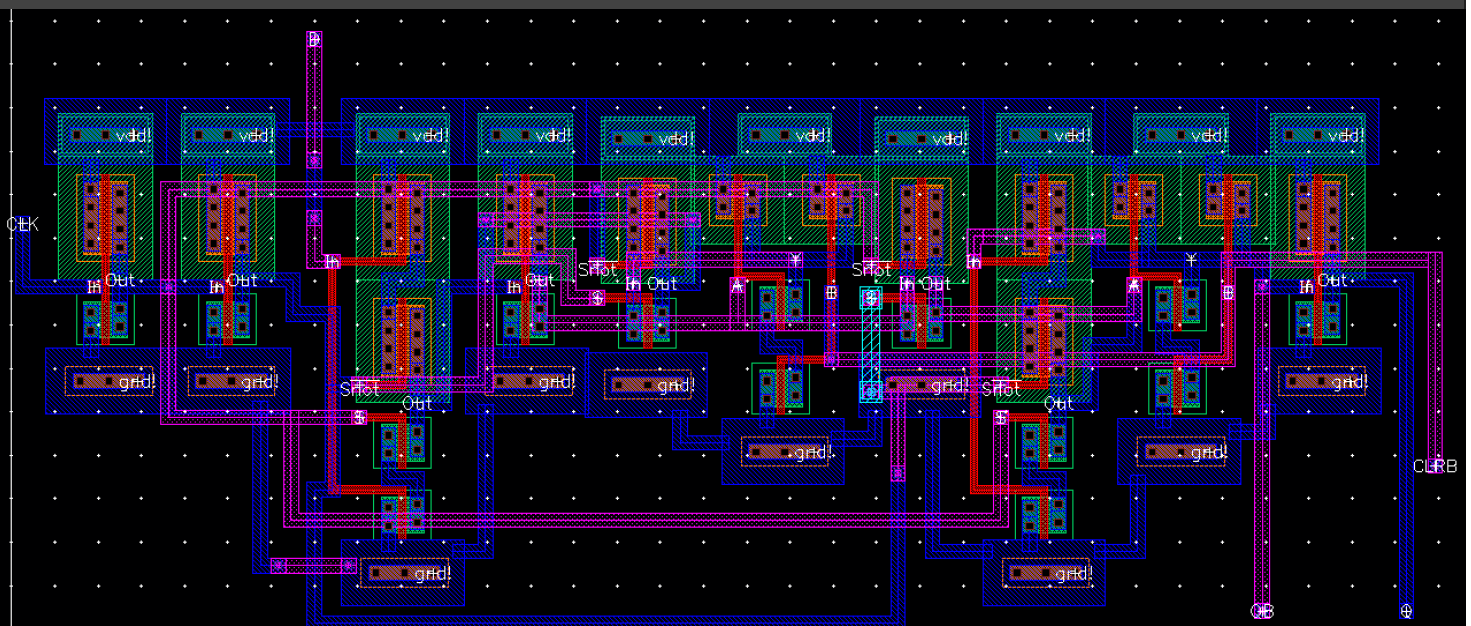
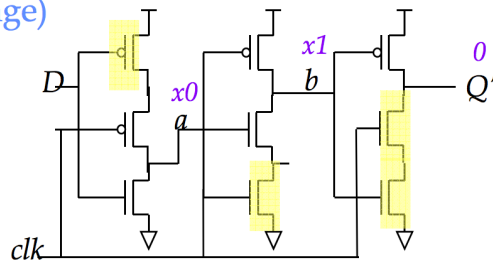


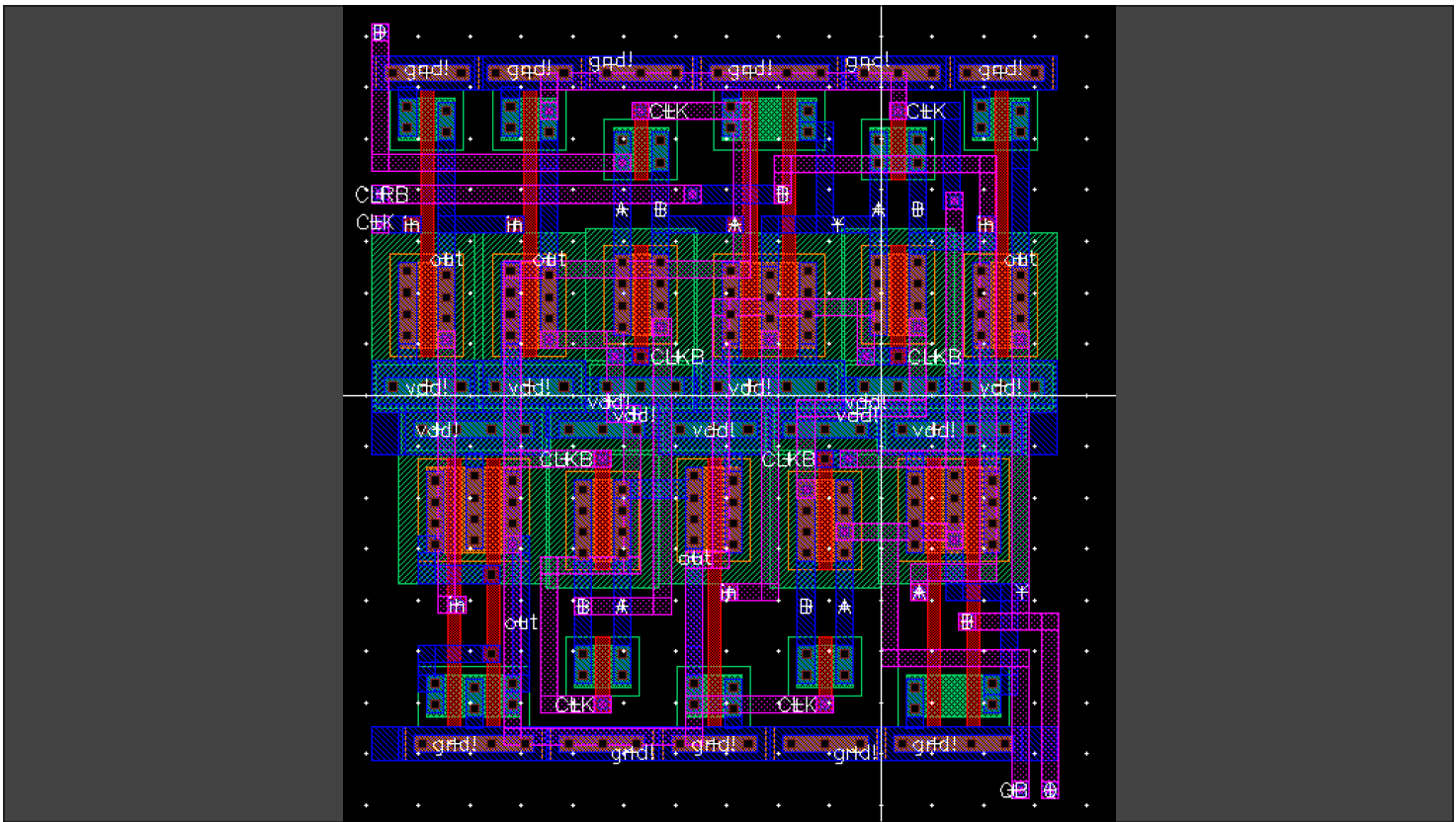
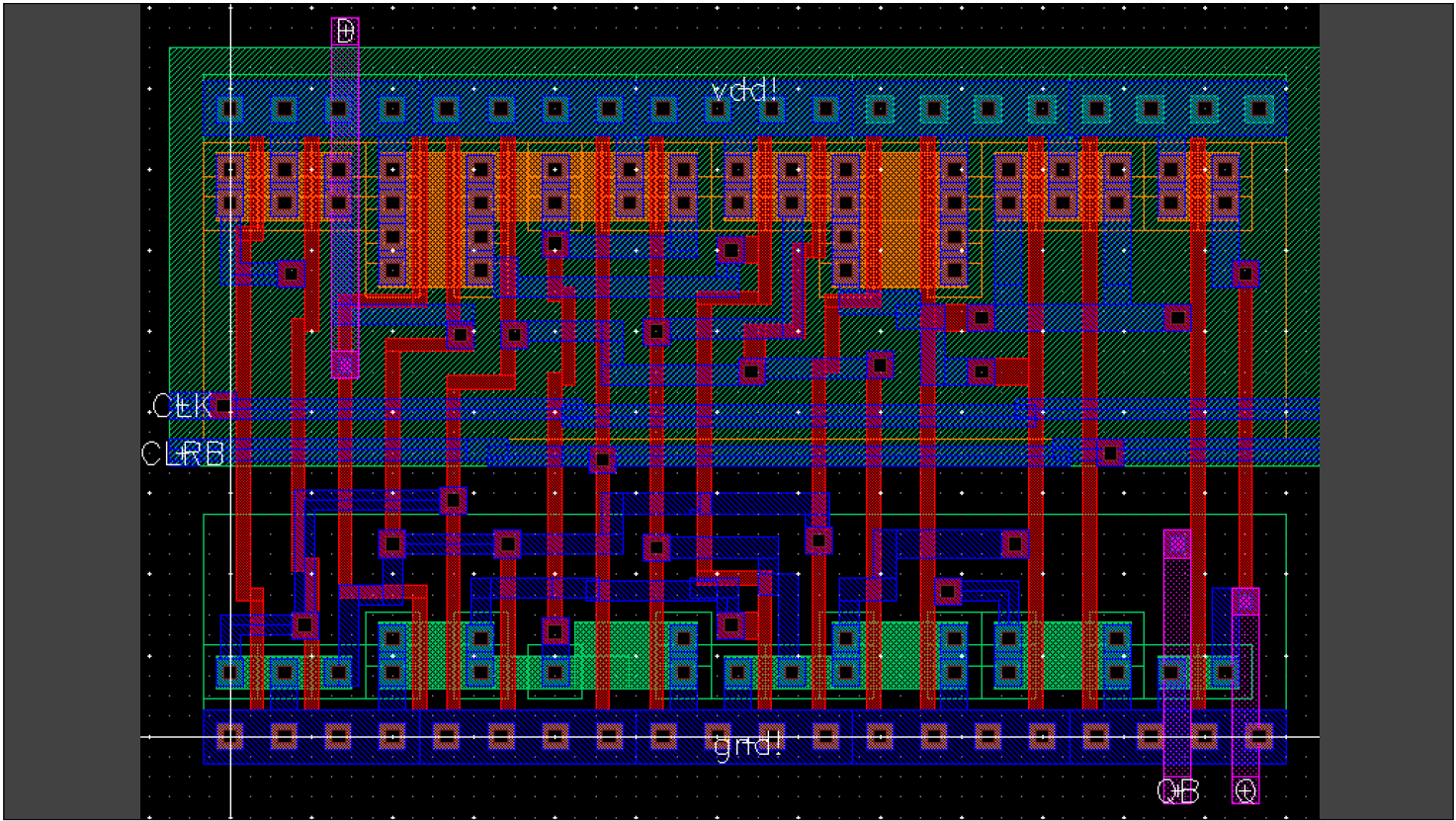
$\text{clk} \rightarrow 1$

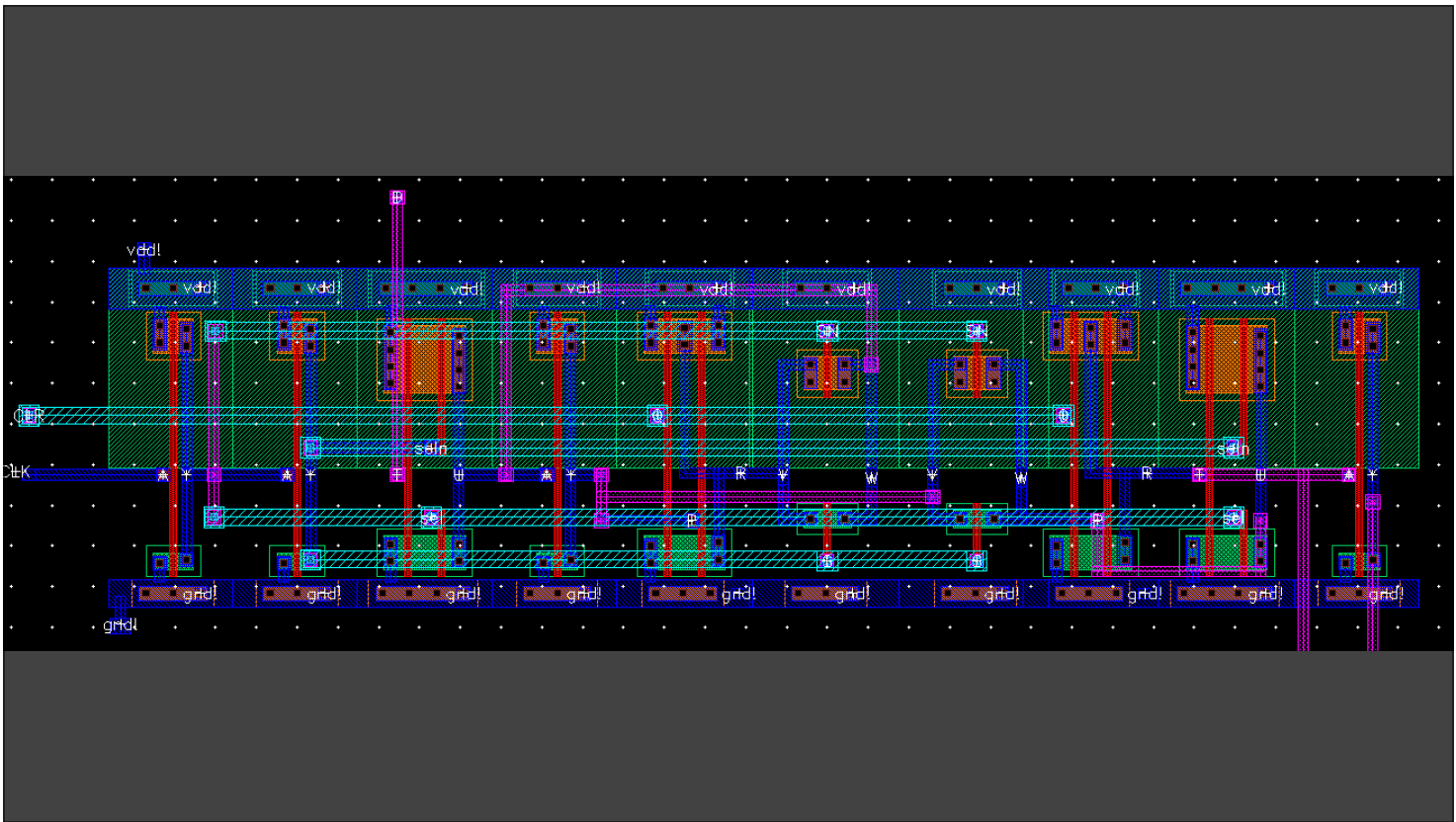
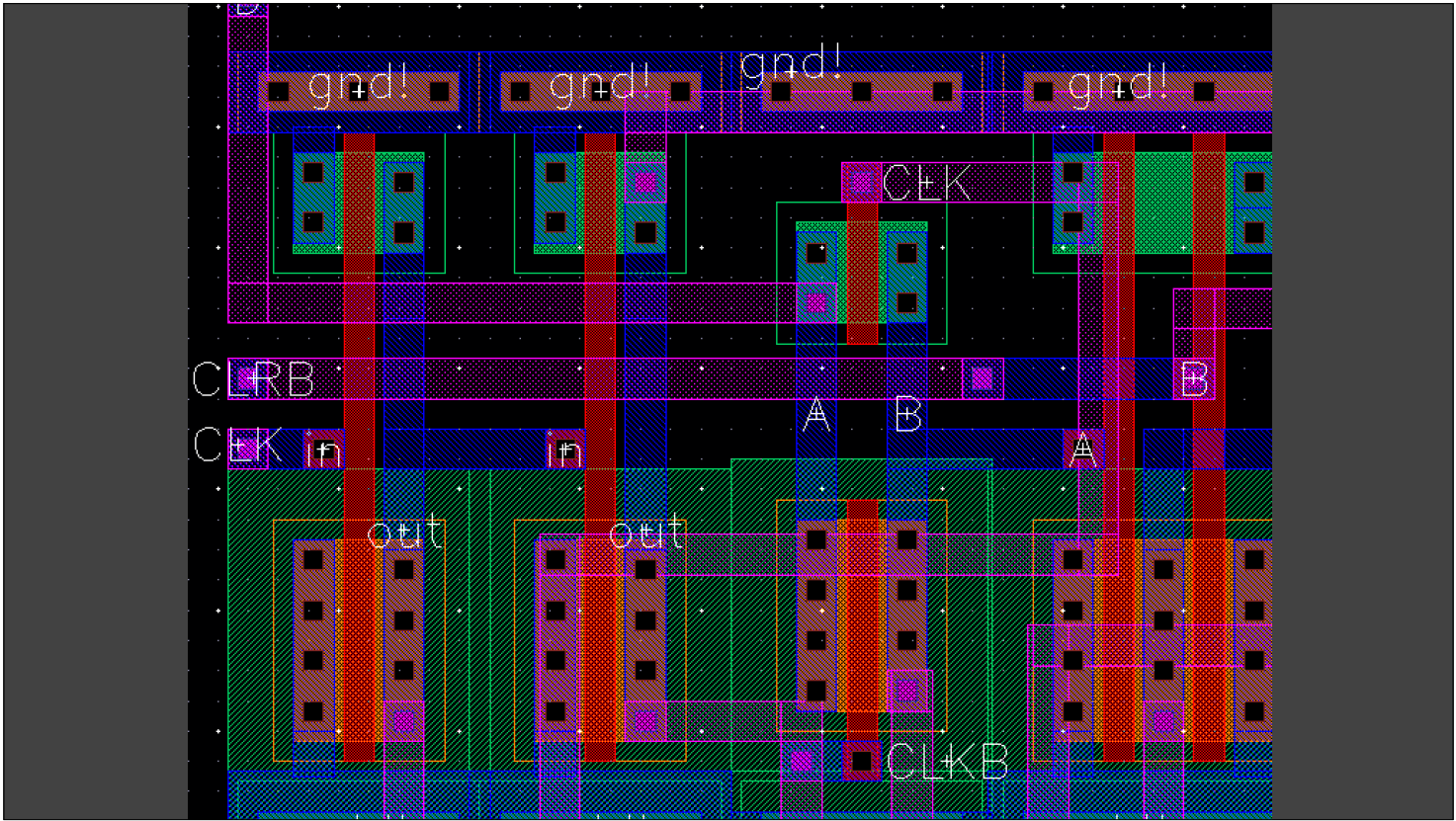


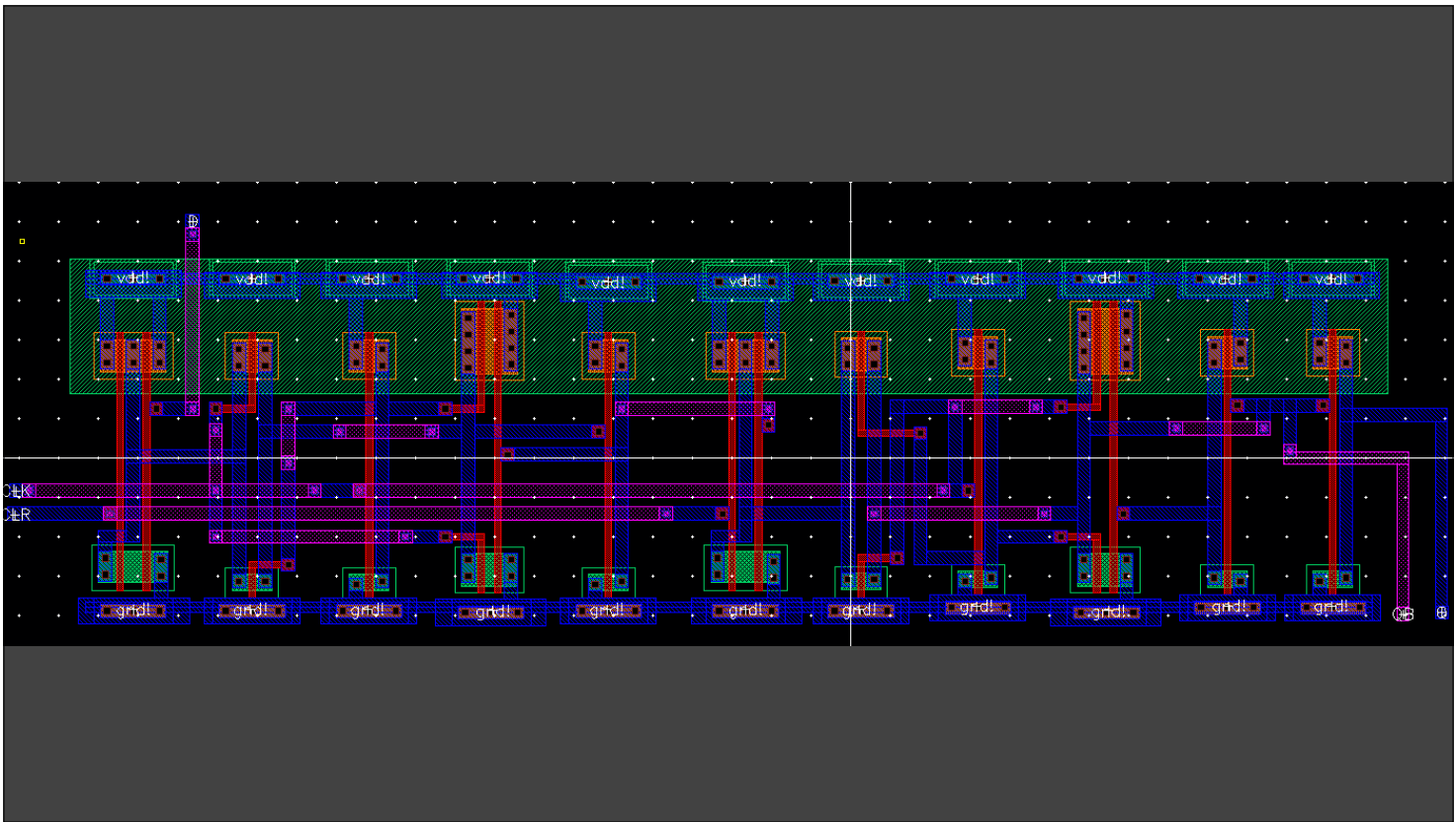
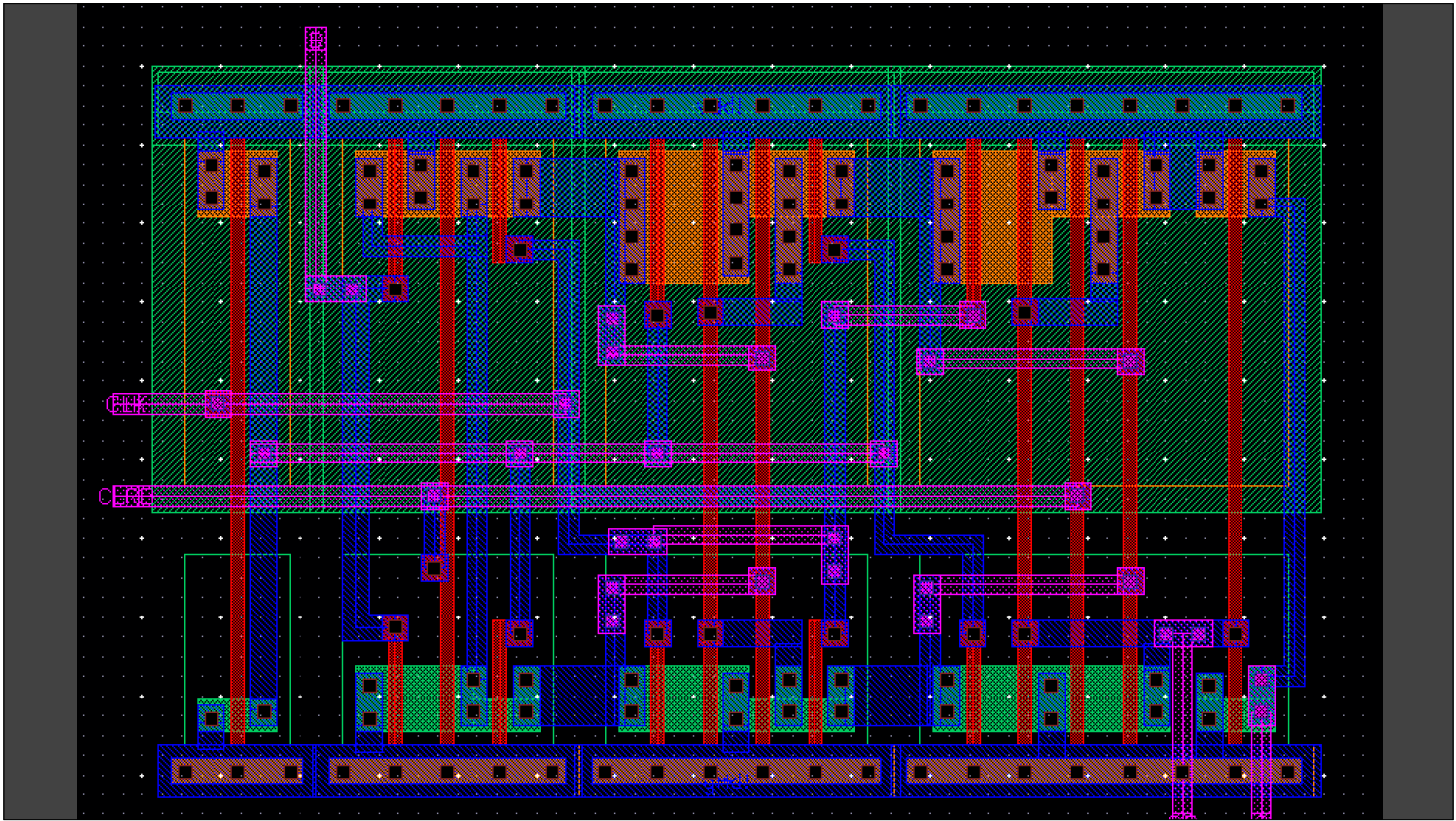
Note: a/b floats high or low (x0, x1)

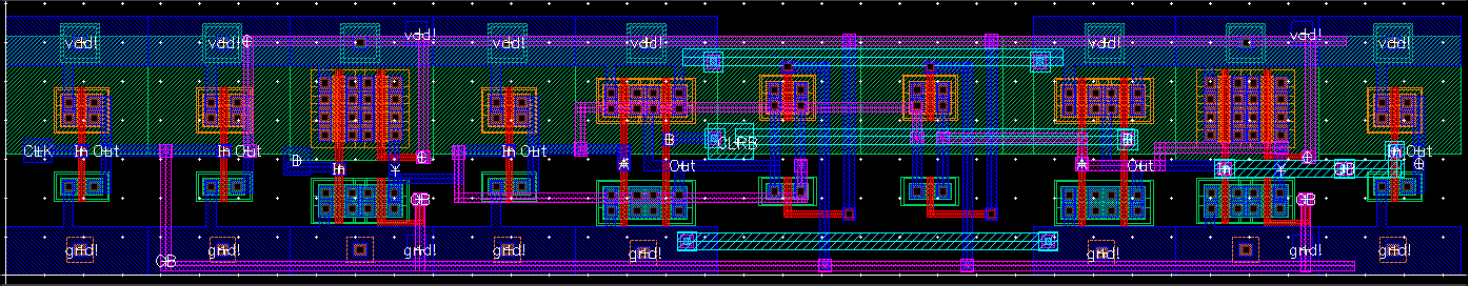
$D \rightarrow 0, \text{clk}=1$ (Q' should not change)











Lots of variety!
No perfect answer...