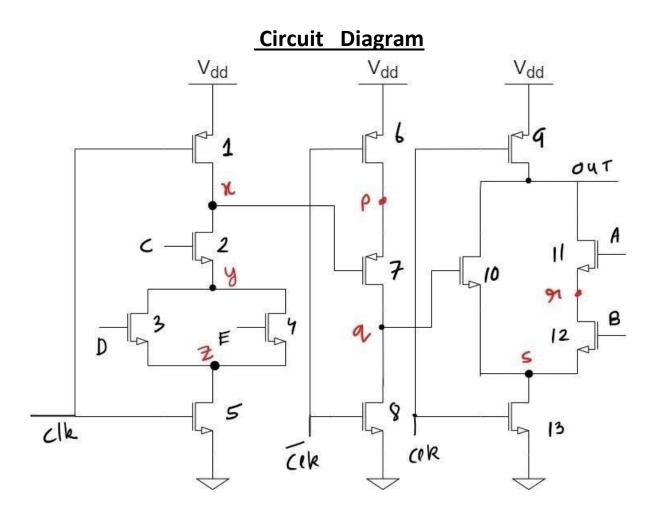
# Design & Layout of Dynamic CMOS logic circuit

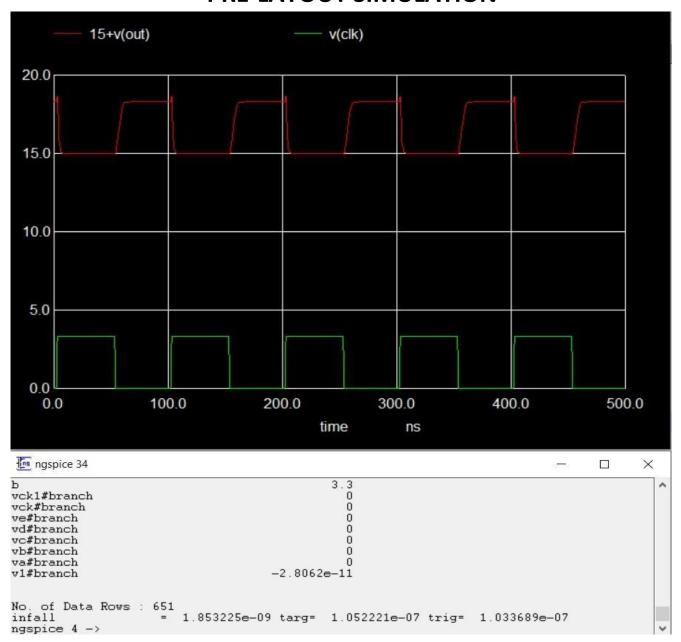
## **BY SATYAKI CHAKRAVORTY**

Given logic: (AB+C(D+E))'

Dynamic style used : Zipper Style



### PRE-LAYOUT SIMULATION

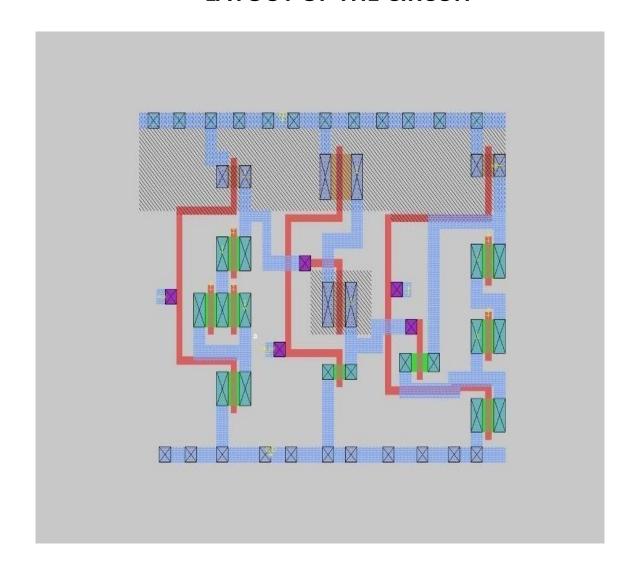


#### For Max frequency of operation, input vector chosen:

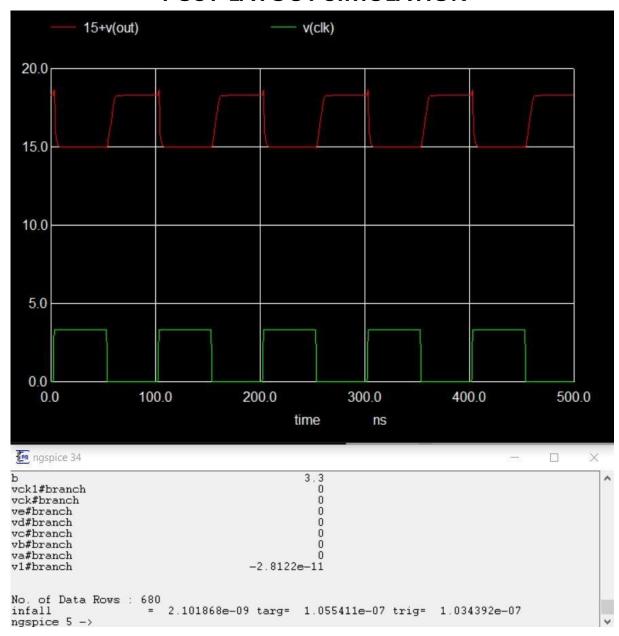
A=1, B=1, C=0, D=x, E=x as this corresponds to the worst-case condition.

Max Freq = 1/infall = 539.6 MHz

## **LAYOUT OF THE CIRCUIT**



## **POST-LAYOUT SIMULATION**



#### For Max frequency of operation, input vector chosen:

A=1,B=1, C=0, D=x, E=x as this corresponds to the worst case condition.

Max Freq = 1/infall = 475.7826 MHz

Thus, We can operate at a higher frequency for the pre-simulation case.