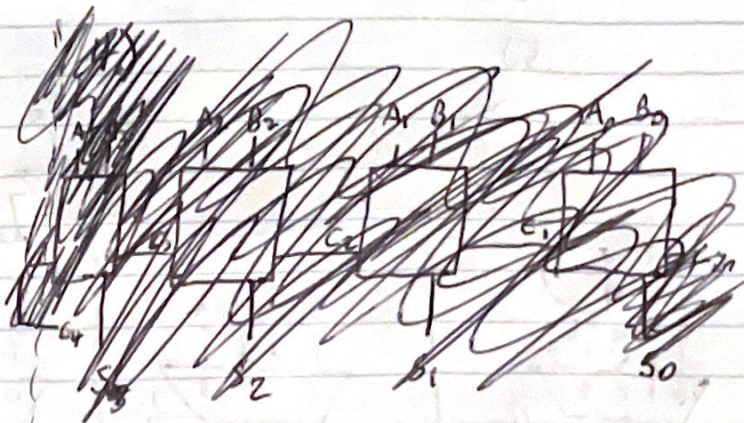
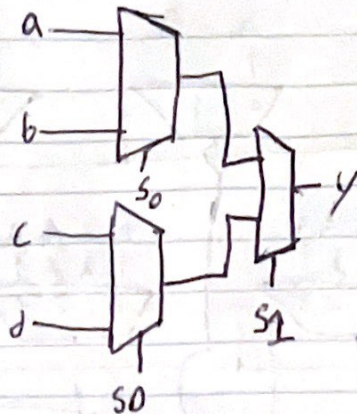
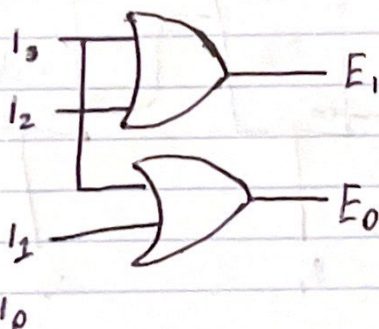


LE HW 4

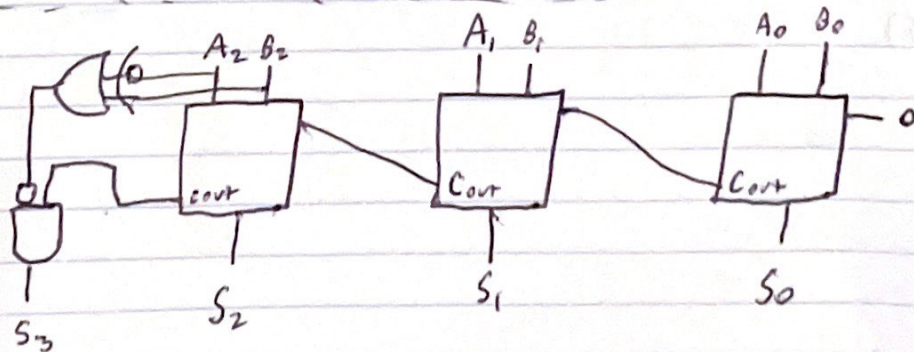
2.)



3.



4.

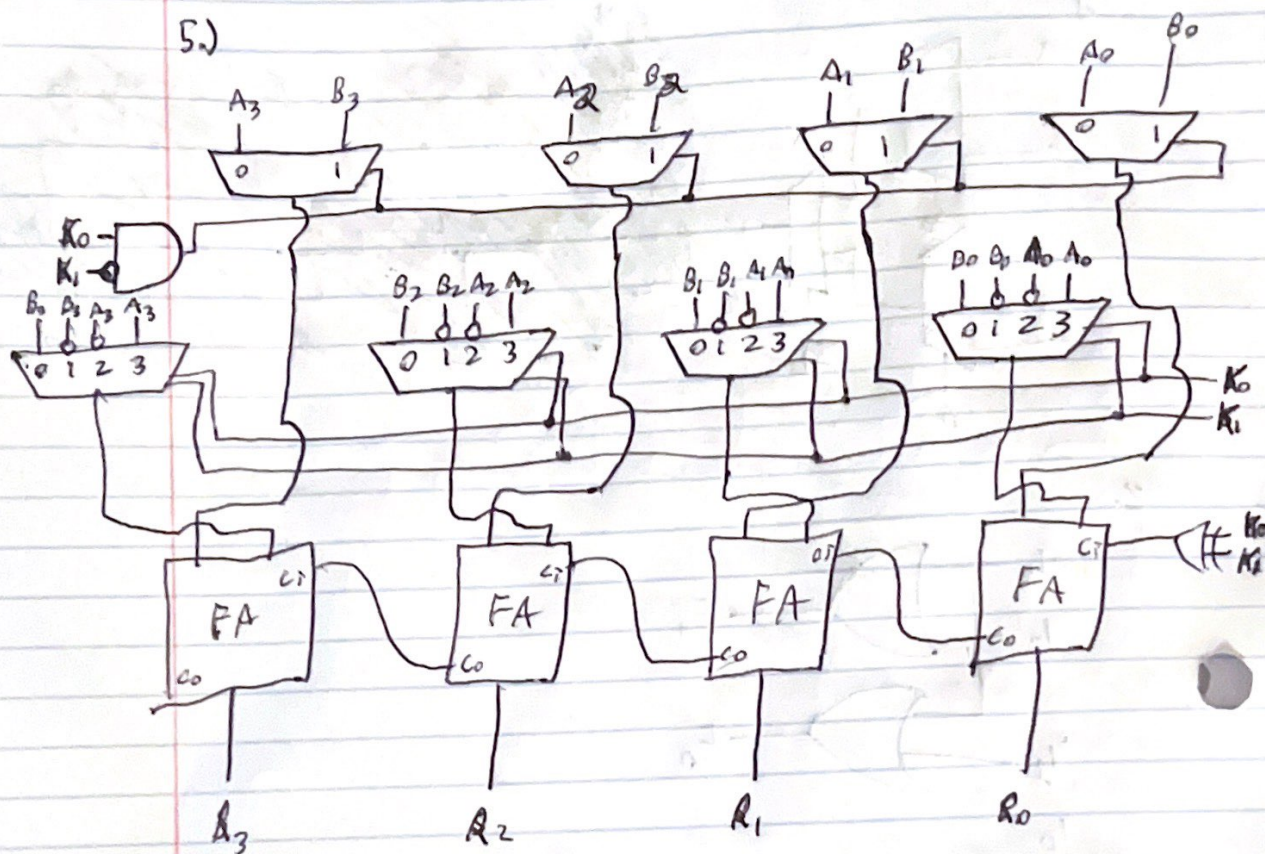


this design can ~~not~~ have overflow because <sup>some</sup> combinations of 3 bit values are incapable of being represented in 4 bits  
 Ex:  $111 + 001 = 1000 = -8$   
 $7 + 2 = 8$



# CE HW 4

5.)



6.)

$$\overline{R_3} \cdot \overline{R_2} \cdot \overline{R_1} \cdot \overline{R_0} = Z$$

$$R_3 = N$$

$$\overline{R_3} = P$$

$R_3$  is most significant digit