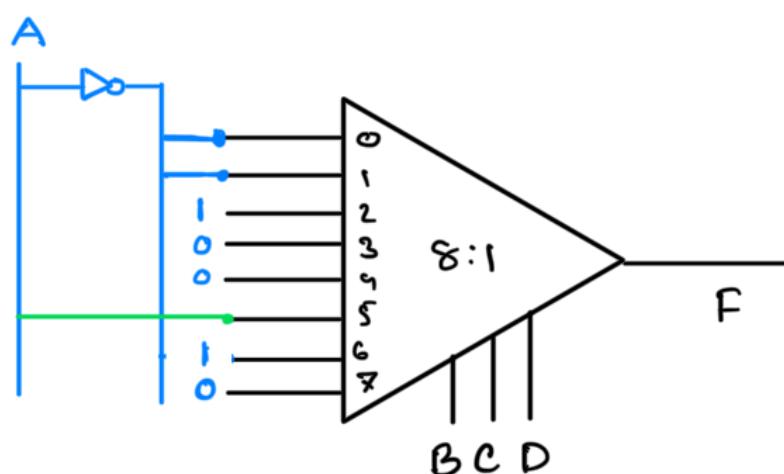


# Assignment - 3

(I)

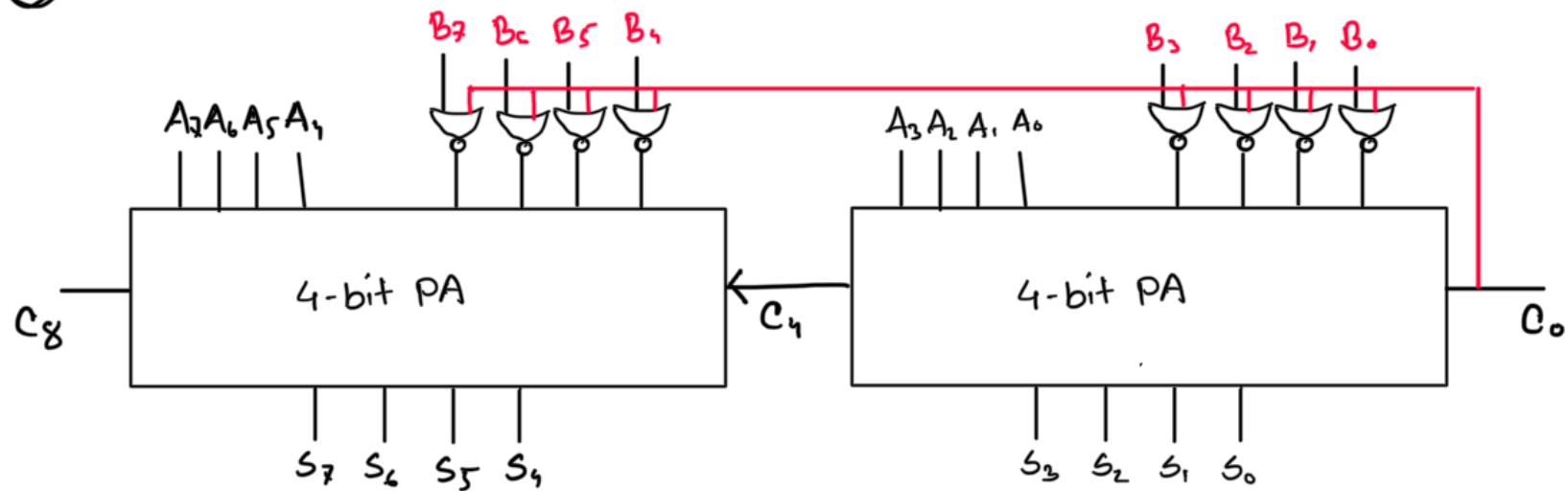


$I_0$	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	$I_6$	$I_7$
0	1	2	3	4	5	6	7
A'	0	1	2	3	4	5	X

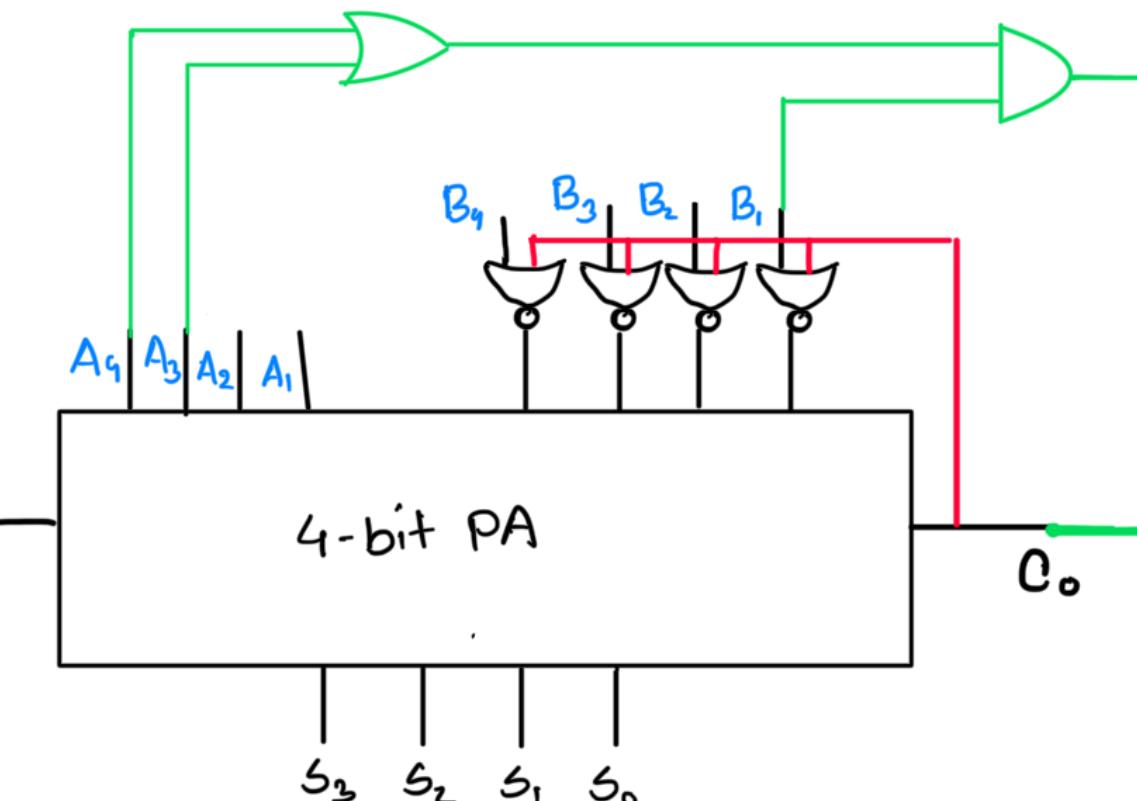
  

$A'$	0	1	2	3	4	5	6	7
A	8	9	10	11	12	13	14	15
$A' A'$	1	0	0	A	1	0		

(II)



(III)



(IV)

$I_3$	$I_2$	$I_1$	$I_0$	$A_1$	$A_0$
0	0	0	0	1	1
0	0	0	1	0	1
0	0	1	0	1	0
0	0	1	1	0	0
0	1	0	0	1	1
0	1	0	1	0	0
0	1	1	0	0	0
0	1	1	1	1	1
1	0	0	0		

$$\overline{A_1}$$

$I_3 I_2$	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	1	X	1
10	1	1	1	1

$$= I_3' I_2' I_0' + I_3' I_1' I_0' + I_2' I_1' I_0' + I_2 I_1 I_0 + \dots$$

$$\begin{array}{r|rrrr|rr} & 1 & 0 & 0 & 1 & 0 & 0 \\ & 1 & 0 & 1 & 0 & 0 & 0 \\ & 1 & 0 & 1 & 1 & 1 & 0 \\ \hline & 1 & 1 & 0 & 0 & 0 & 0 \\ & 1 & 1 & 0 & 1 & 0 & 1 \\ & 1 & 1 & 1 & 0 & 0 & 0 \\ & 1 & 1 & 1 & 1 & x & x \end{array}$$

<u>A<sub>0</sub></u>	1,1 <sub>0</sub>	00	01	11	10	T 13 11 10
I <sub>3</sub> I <sub>2</sub>	00	00	01	11	10	
	00	00	01	11	10	
00	1	1				
01	1		1			
11		1		X		
10		1				

$$= l_3' l_1' l_0 + l_3' l_2' l_1 + l_2' l_1' l_0 + l_3 l_2 l_0 \\ + l_2 l_1 l_0$$