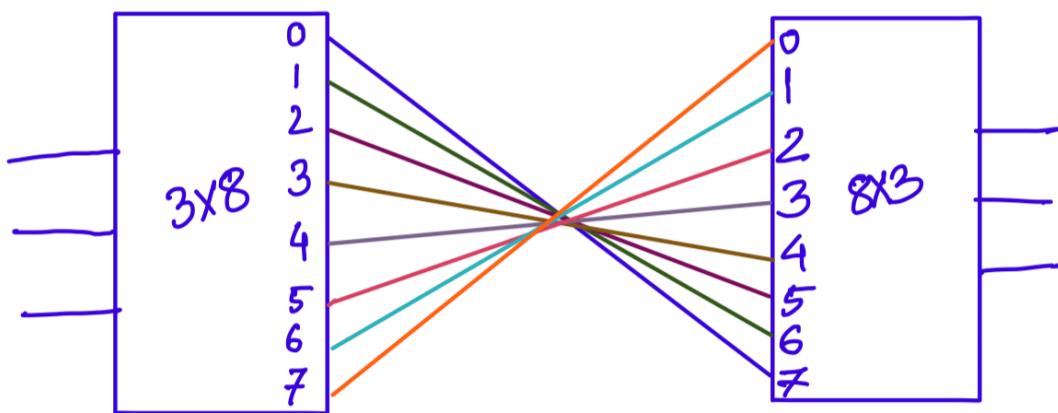
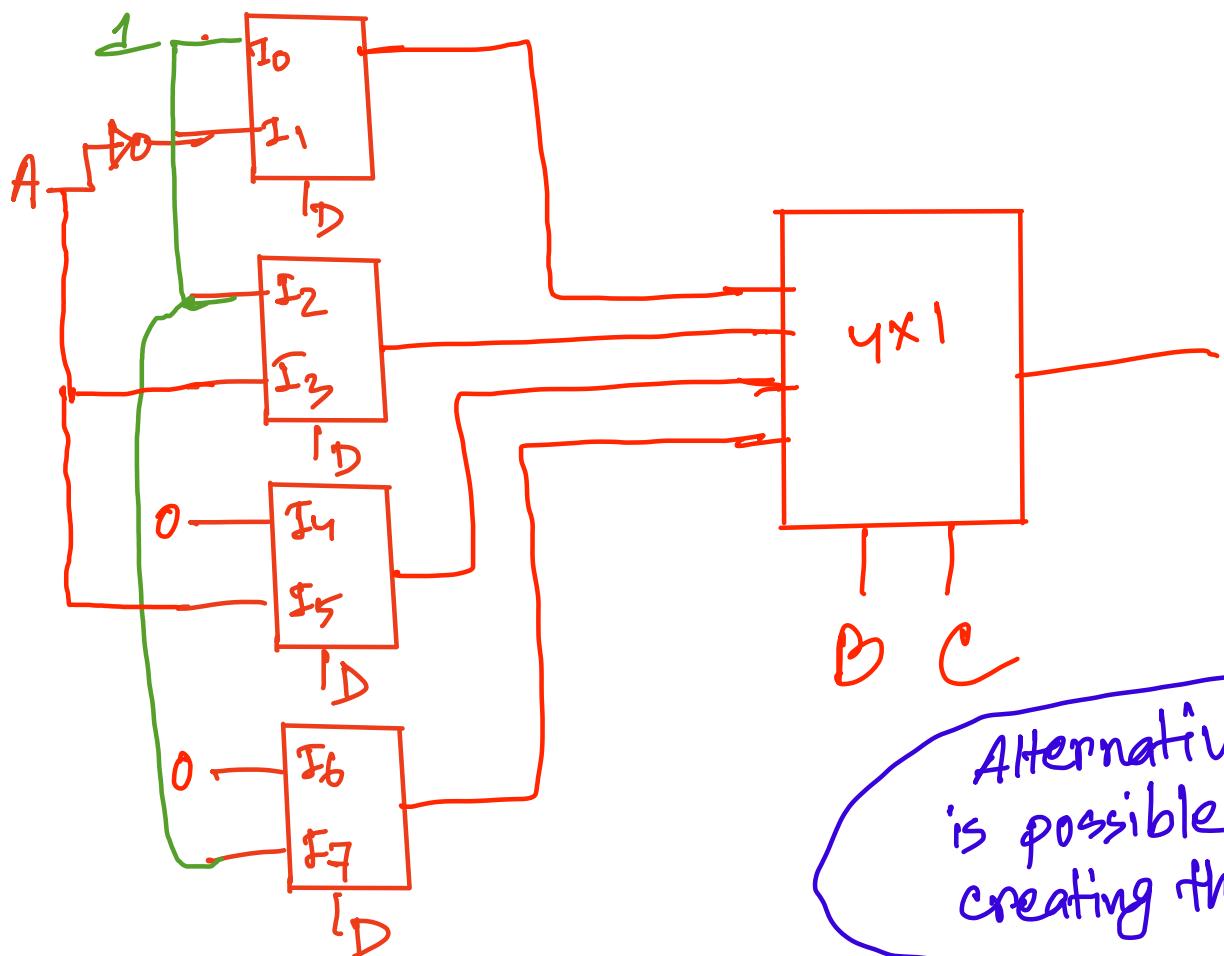


1



|      | $I_0$ | $I_1$ | $I_2$ | $\overline{I_3}$ | $I_4$ | $I_5$ | $I_6$ | $I_7$ |
|------|-------|-------|-------|------------------|-------|-------|-------|-------|
| $A'$ | 0     | 1     | 2     | 3                | 4     | 5     | 6     | 7     |
| $A$  | 8     | 9     | 10    | 11               | 12    | 13    | 14    | 15    |

1     $A'$     1    A    0    A    0    1



Alternative solution  
is possible without  
creating the table

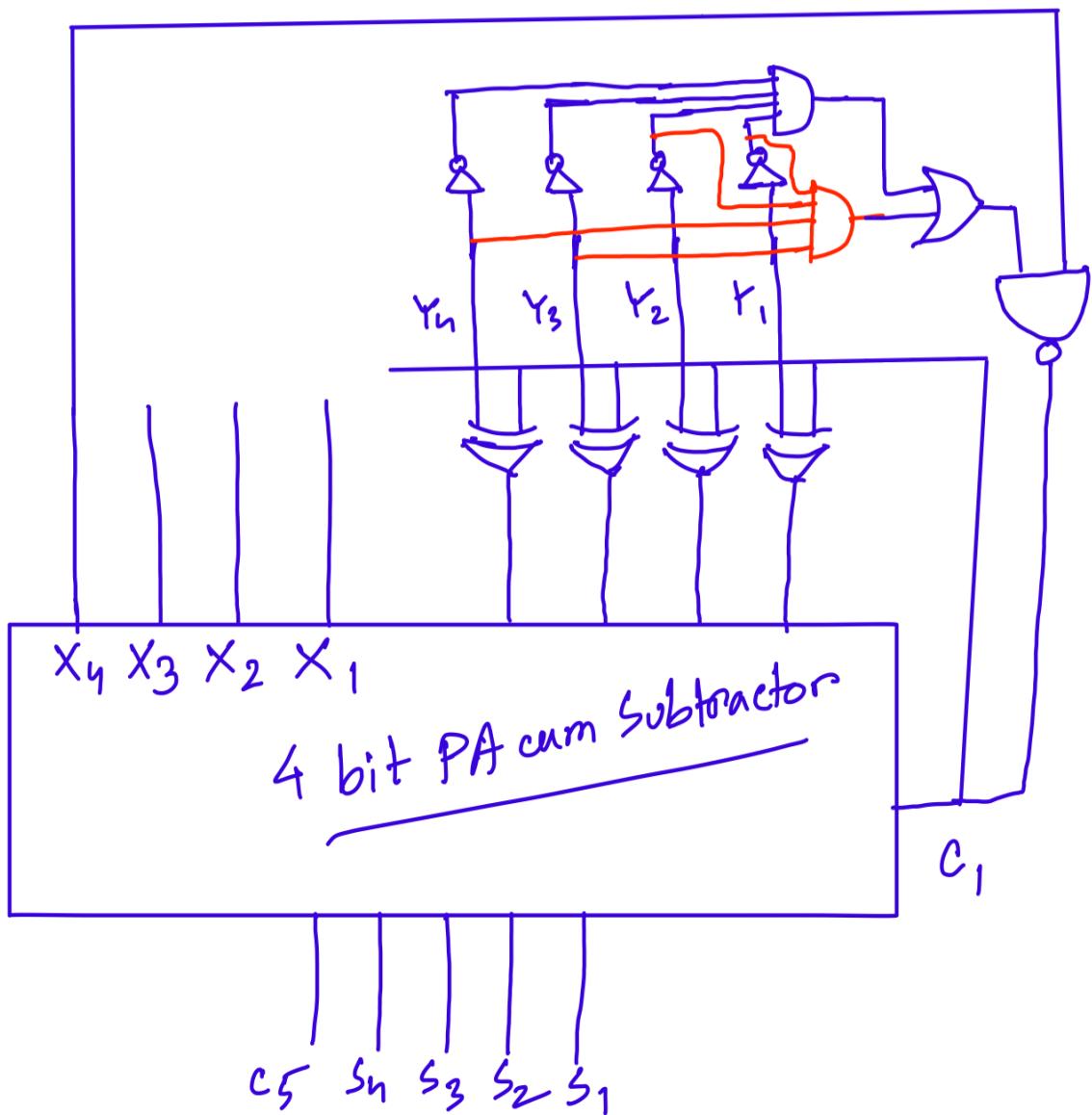
3

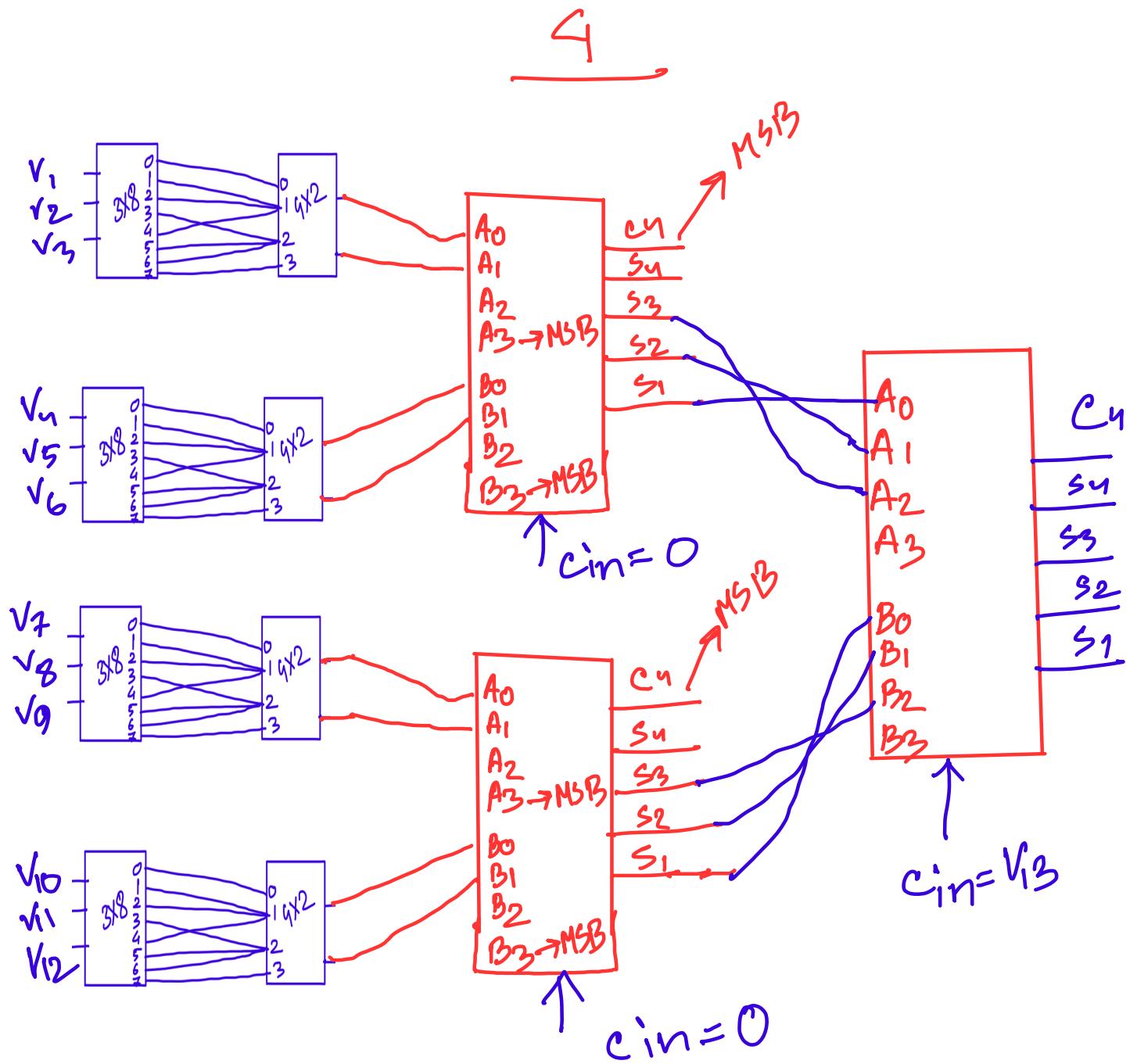
$X$  is greater than or equal to 8  $\rightarrow$  MSB 1

$Y$  is divisible by 12  $\rightarrow$  0, 12

0000      1100

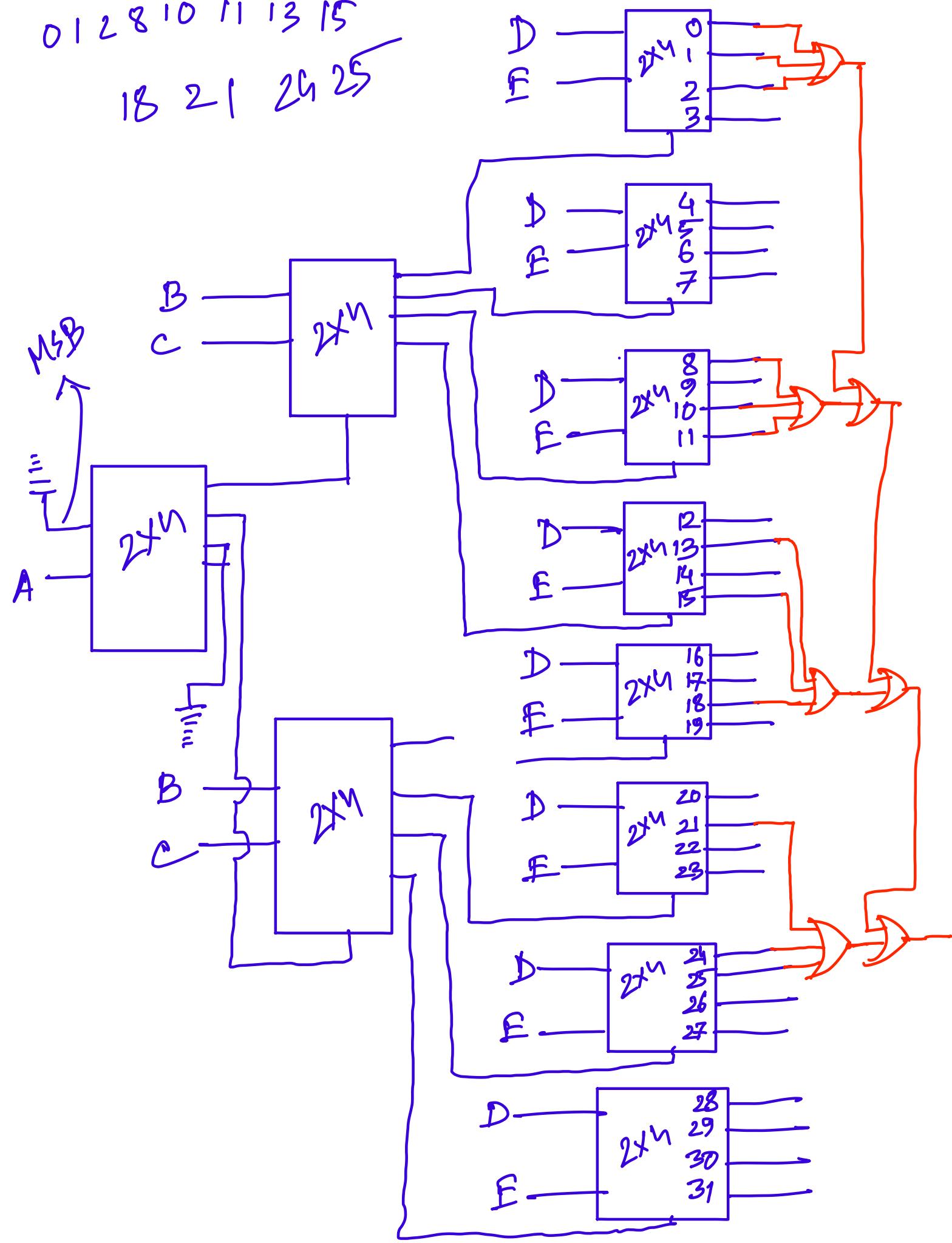
$$Y_4 Y_3' Y_2' Y_1' + Y_4 Y_3 Y_2' Y_1'$$





5

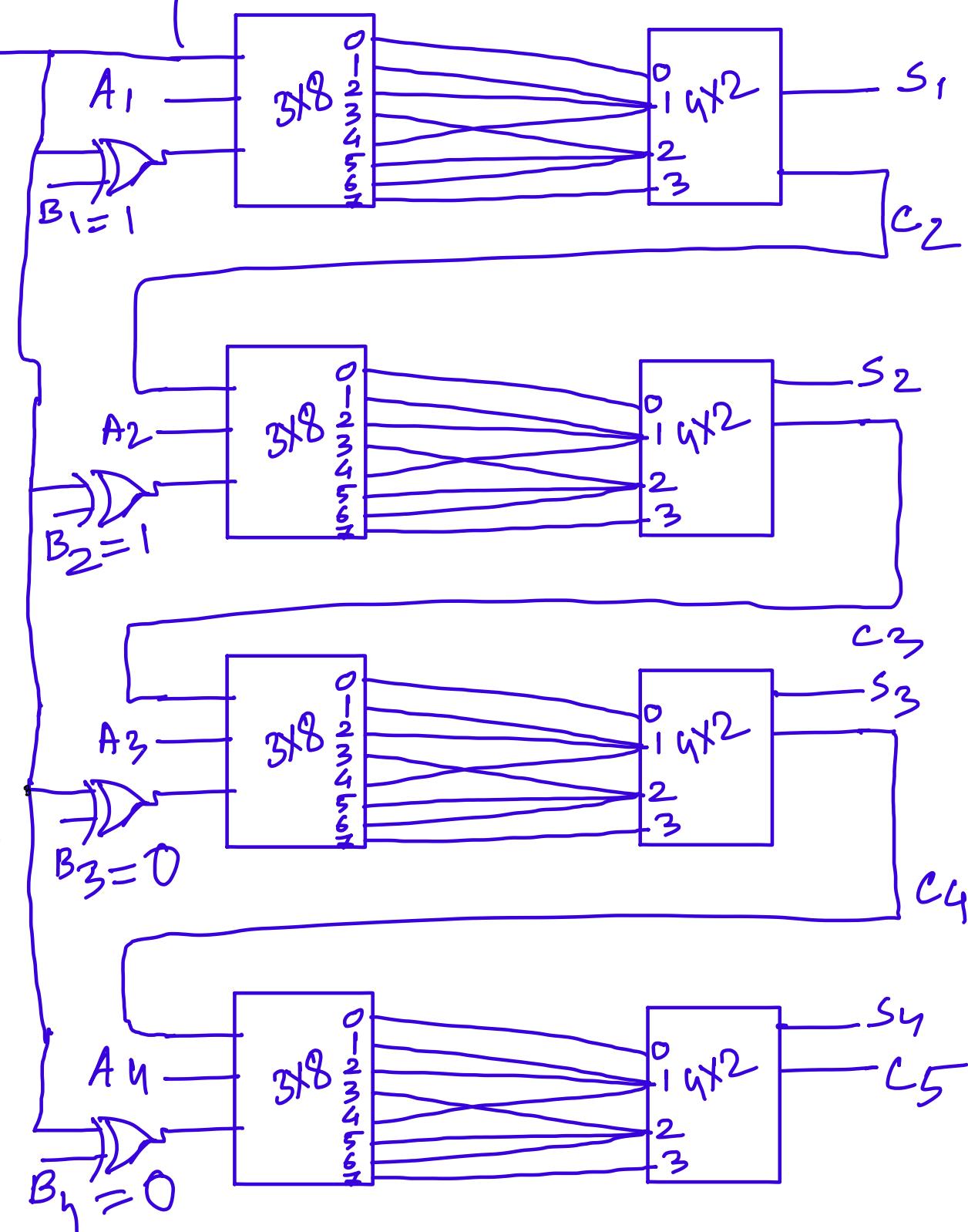
0 1 2 8 10 11 13 15  
 18 21 24 25



$00 \rightarrow 0$   
 $01 \rightarrow 1, 2, 4$   
 $10 \rightarrow 3, 5, 6$   
 $11 \rightarrow 7$

6

$C_{in} = 1$



$$F(A, B, C, D) = \sum_{j=0}^7 (0, 1, 2, 8, 10, 11, 14, 15)$$

