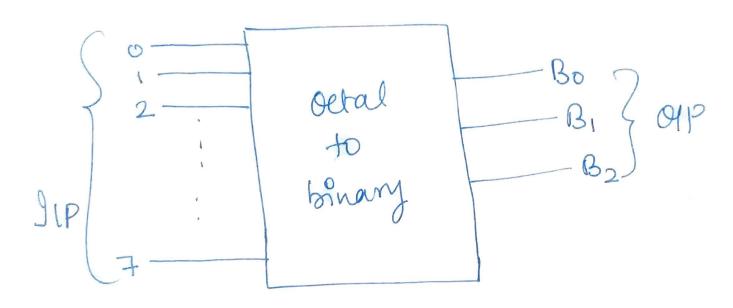
## Octal to Binary Encoder

Los & Inputs to and 3 OIP lines



Input 1	B2 B, B0
0	0 0 0
1	00)
2	010
3	0 ( )
4	100
5	(0)
6	110
7	111

De 2007 DOLP.

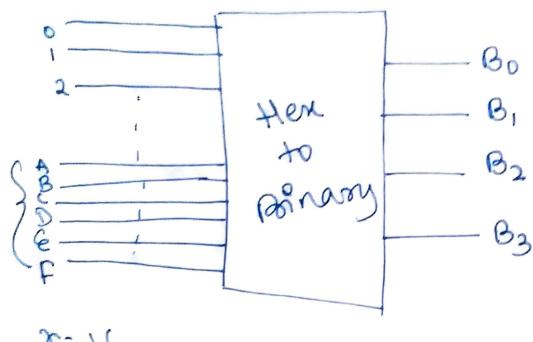
SIPS -> 301P

In Encoder

$$(761)_{8}$$
 $(911110001)_{2}$ 

$$B_{2} \rightarrow 4+5+6+7$$
  $B_{1} = 2+3+6+7$   $B_{0} = 1+3+5+7$   $B_{1} = 2+3+6+7$   $B_{0} = 1+3+5+7$   $B_{1} = 2+3+6+7$   $B_{2} = 1+3+5+7$   $B_{3} = 1+3+5+7$   $B_{4} = 1+3+5+7$   $B_{5} = 1+3+7$   $B_{5} = 1+3+7$ 

## Heradelinal to Binary Encoder



8=18

0 to t

n = 2m

16 = 2m

m = 4 -> Of lines

Rest make the heraderinal to Brinary Encoeler.

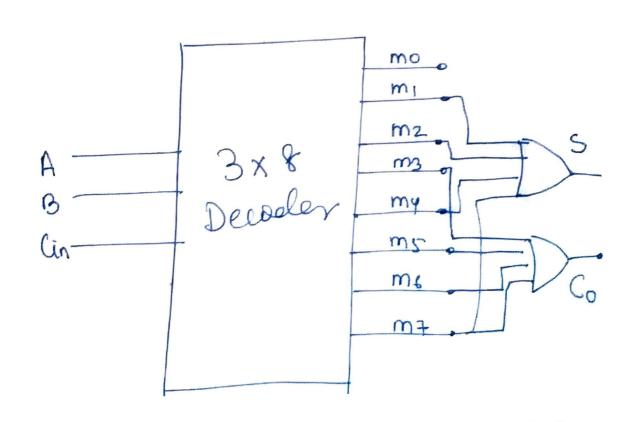
Bo= 1+3+5+7+9+B+D+F

B1= 2+3+6+7+A+B+E+F

Bas

## Full-Adder Implementation Using Decoder

1) Single Ic for multiple appin.



$$F_{S} = \sum_{m_{1}, m_{2}, m_{4}, m_{7}} (1, 2, 14, 7)$$

S Co A B Cin 000 mo 001 010 mI 010 1 0 m 2 011 m3 001 my 101 ms-110 mg 111 mz

Solve fell subtractor by using decoder.