

4. 0100  
14. 1110  
2. 0010

Consider from rightmost bit to  
leftmost bit, For each bit, we  
count  $n_{zeros}$  and  $n_{ones}$ .



$n_{zeros} = 3$

$n_{ones} = 4$

$\Rightarrow$  there are  $3 \cdot 4$  combinations  
resulting in XOR value to '1'