

How many bit flips are req to convert a no. to another.

$$24 \rightarrow \underline{11}1\underline{01} \quad 15 \rightarrow \underline{01111}$$

ans is 2

what we can do is XOR both numbers

$$\begin{array}{r} 11101 \\ 01111 \\ \hline 10010 \end{array}$$

$\rightarrow$  This will give the positions where they differ

Now to count set bits use the algo

$(n \& (n-1)) \rightarrow$  till is zero  $\rightarrow$  it will give no. of set bits.