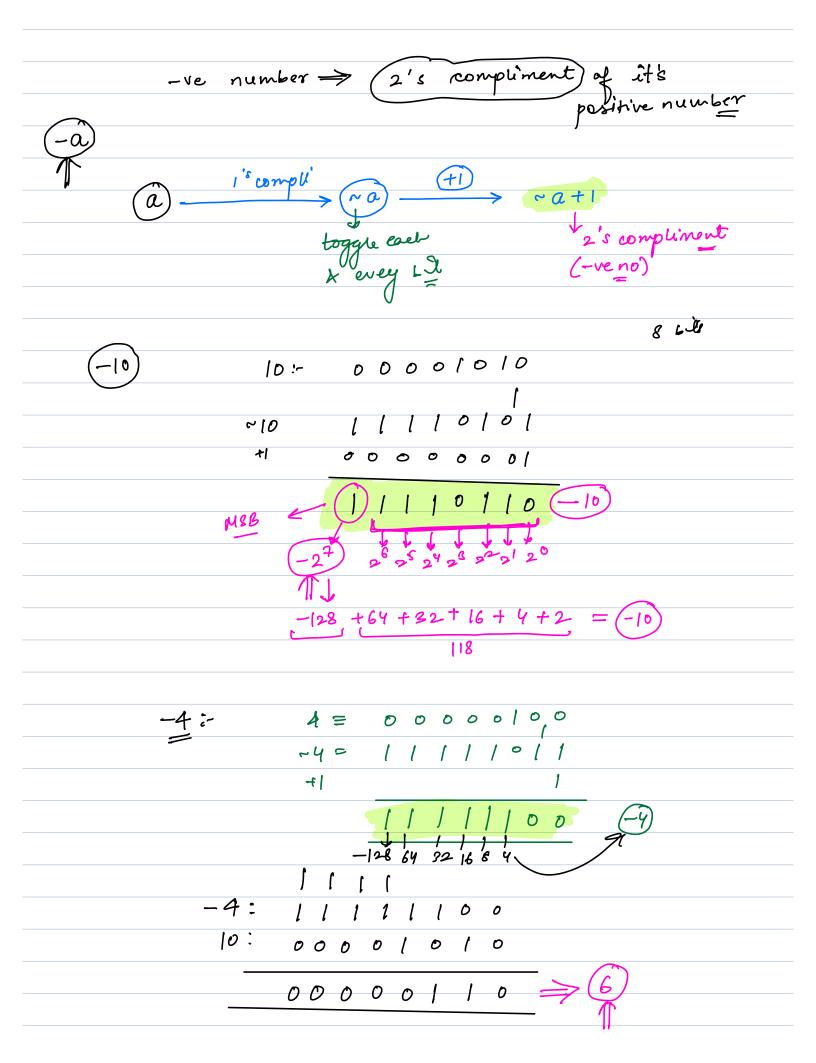
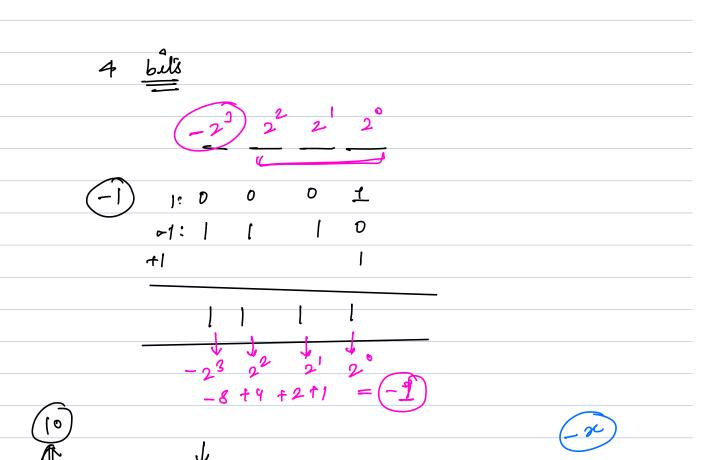
```
N (1<<ii):- seto the it but in N
N & (1<<i):- check if it but is set
N^ (1<<ii) == Toggles the it full in N
N & (N-1): unset the lost set Lit
         MSB
                       8 bit
    10: (0) 0 0 0 1 0 1 0
           0 0 0 1 0 1 0
                -10
                              8 6 ds
           D
                                  -4+10?
(6)
  10: 0 0 0 0 1 0 1 0
                0000
          0 0 0 0 0
```

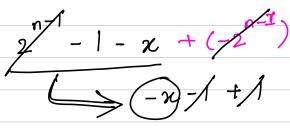


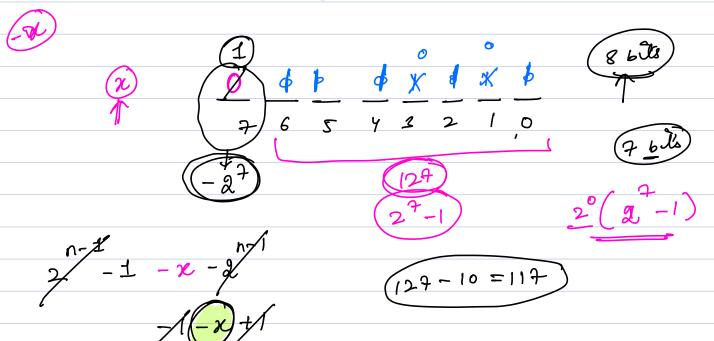
-ve 
$$\Rightarrow$$
 decimal  $|MSB \Rightarrow -2|$  all  $\Rightarrow +2|$ 

4 n-1

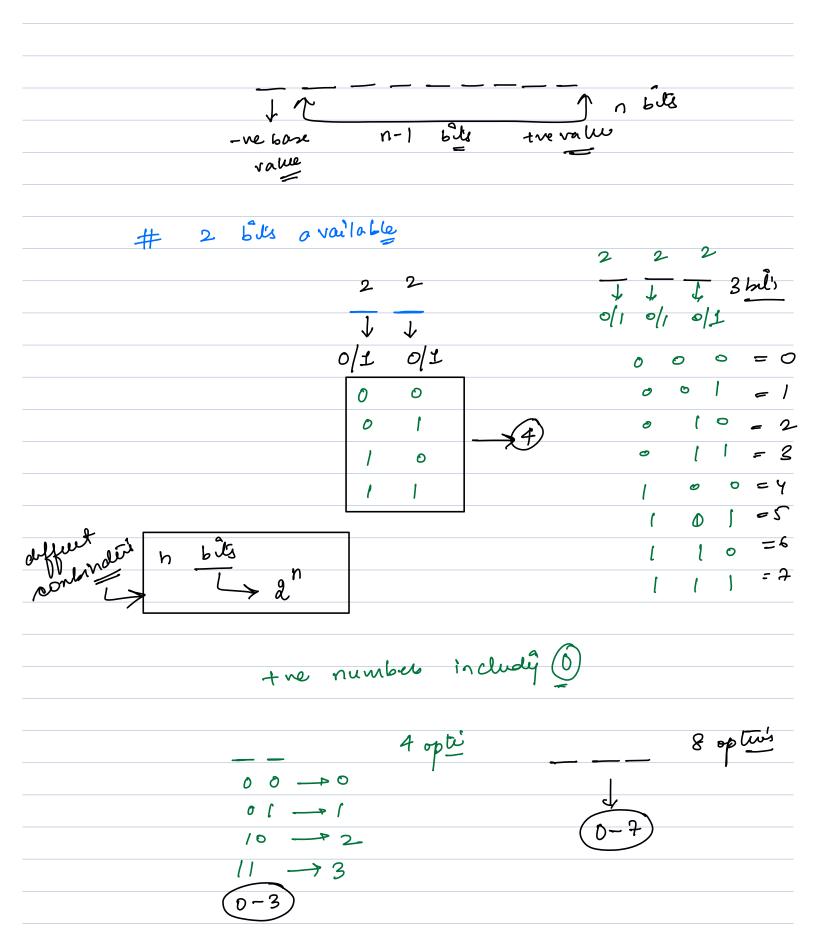


(+12-7)





$$\begin{array}{c|cccc}
\hline
12 & 1 & 0 & 0 \\
\hline
-23 & & & \\
-8 & 4 & & & \\
\end{array}$$



n bits 
$$\equiv \binom{n}{2}$$

Range  $= 0 \rightarrow 2^{-1}$ 

(only tre rn)

incl. 0

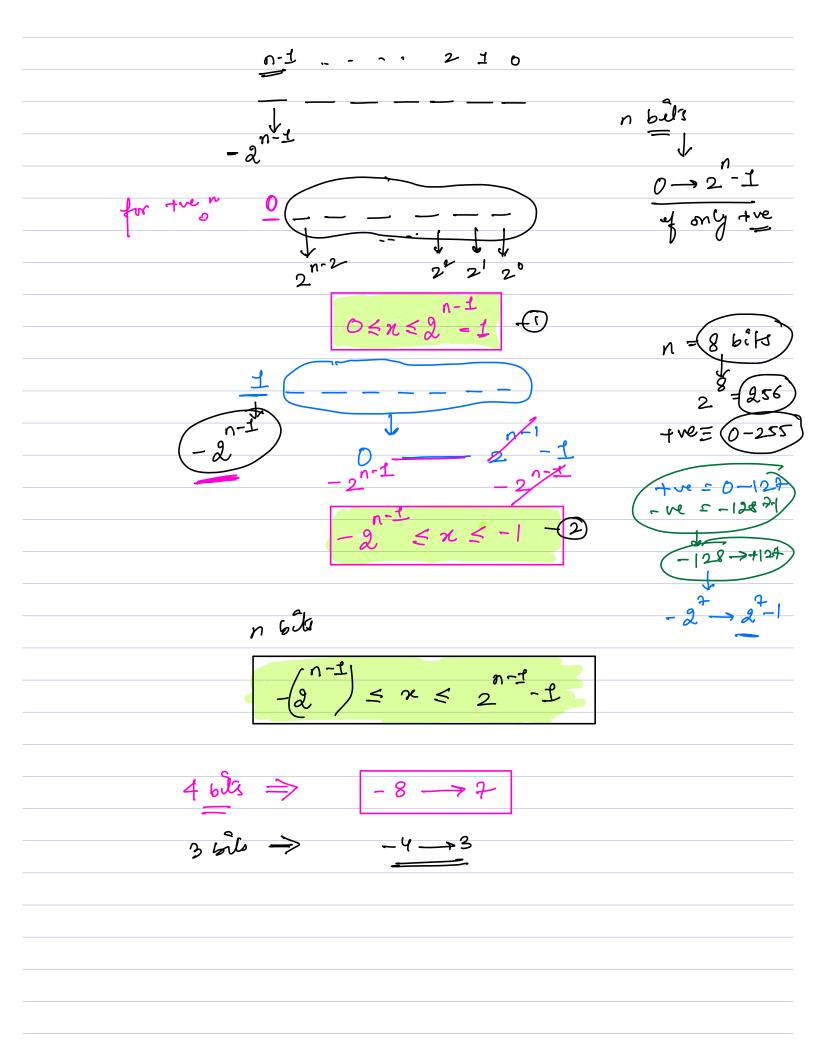
mulude -ve numbes

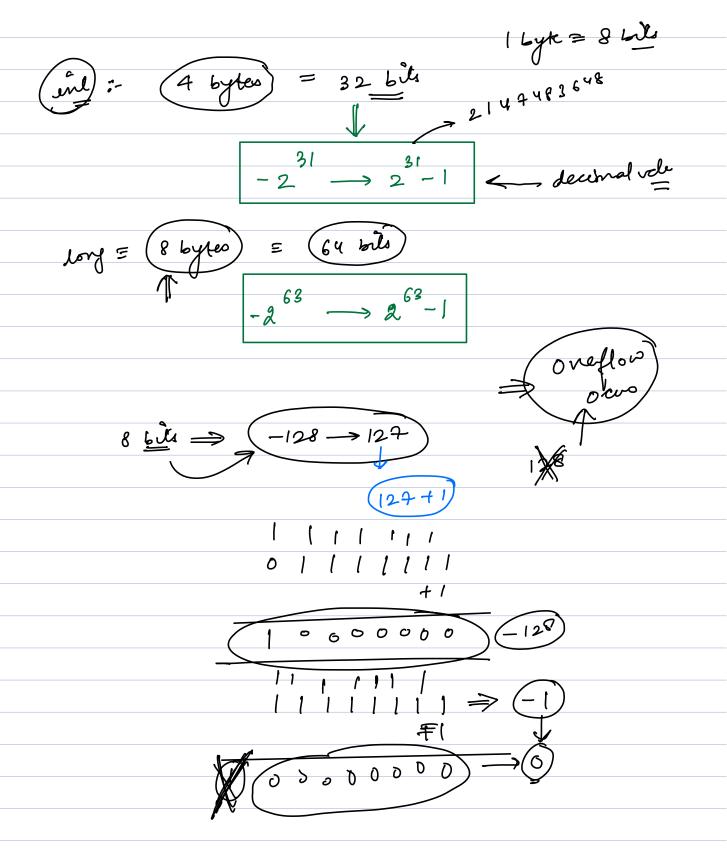
$$0 \circ = 0$$

$$0 \mid = 1$$

$$0 \circ = -2$$

$$1 \mid = -1$$





$$2^{10} = 1024 \approx 10^{3}$$

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