A x size-DT 0001 0 0 0 09 17 0 1 0 0 T 9 T OTTO O T T J 1000 T 0 0 T TO TO 19 17 1100 T T 0 T 1 7 7 0 $L \perp \perp \perp \perp$ $M = (N_v(T << i))$ A^O=

6 5 4 3 2 1 0 T 01 1 0 1 T 7: 0001000 T O T O O T T

6 5 4 3 2 1 0 7: T 01001T 0007000 T O T T O T T

Hamming Distance

$$HD(4,3) \rightarrow 3$$

4, 1 → 2

$$3, 2 \rightarrow 1$$

$$3.4 \rightarrow 3$$

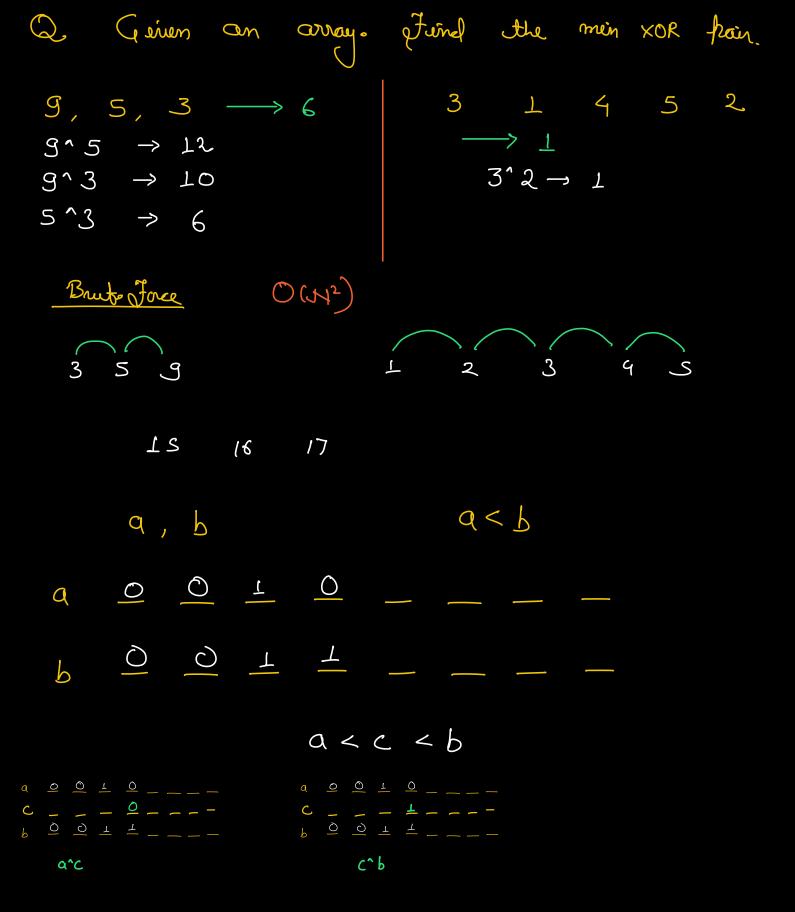
$$3, 4 \rightarrow 3$$
 $2 \rightarrow 2$

$$a = 5$$
, $b = 7$;
 $a = a^{5}$: $// a = 5^{7}$
 $b = a^{5}$: $// b = (5^{7})^{7} \Rightarrow 5$
 $a = a^{5}$: $// a = (5^{7})^{5} \Rightarrow 7$
 $sor(a)$; $\rightarrow 7$
 $sor(b)$.

$$a^{2}b^{2}c$$

$$a = c^{2}b$$

$$b = c^{2}a$$



TC: O(Nley N)

7-1-1-1 1-1-1-1-1

Given an array. Time the man AND train. A: 27, 18, 20 278 20 18 830 27 & 18 10010 11011 TTOTI2 10100 \$ 10010 2 10100 T00T0 T 000 O Q000T => (18) ⇒ 16 J) 16 26, 13, 23, 28, 27, 7, 25 26 & 27 → 26 Brute Fora - O(N2) 26, 13, 23, 28, 27, 7, 26 上 70 1 0 L O13 0 **エ エ エ** 23 L 0 0 78 1 1 1 0 1 27 \bigcirc 7 \bigcirc 25 \bigcirc 0

0 1 0

1

```
ans = 0;
      fa (i= 31; i >=0; i --){ } (lug Ma)
              Cerent = 0,
                                               (-21/2-pf-DT)
              fa (j=0; j< N; j→+){
                         if ( check Bit (A(j), i)){
                                 Cerent ++;
ZH
               in ( count >= 2){
                       ans = Set Bil (ans, i);
                       fa (j=0; j< N; j++){
                                  if ( Check Bit (A(j), i)){
                                          A[j] = 0;
  TC: D(N leg M)
   -> Return the Rain
   > man (albec)
```

- man (asbeced)