```
Eq: n=8, ATT = [4,2,5,4,2,3,3,1]
Take XOR of all Number
                                4 0 1 0 0
                                0010
                                5 0 1 0 1
                                4 0 1 0 0
                                 2 0 0 1 0
                                 3 0 0 1 1
                                  3 0 0 1 1
                                   0001
                 外かかっちかりかかかり 0100
                     = 5^{1} = 4
→ 5^1 can be written as
                         0100
 Every Bit with O is some, But Every bit with 1 is differen
 This says that - Every Bit with One group up to
 form 5 & Every bit with 0 group up to form 1
so from 4 [0100] - we can Extract 5, 1
```

# Grab Every bit with 1

= 4^5^4=5

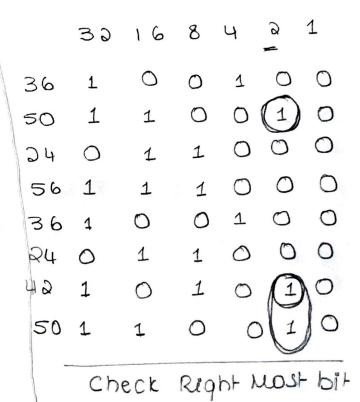
```
# Grob Every bit with 0
  2 1 2 1 3 1 3 1
                              \odot
                           5
                           4
     = 1
                           2
                                      1
                                   1
                              0
                                      1
                                 0
#0p = [5, 1]
                              0 0 0
                                   0
                                 1
                              0
# Example 2: N=8
                 , [36,50, 24,56, 36,24,42,50]
      32 16 8
 XOR
         0 0
              1
      1
 36
                     0
              0 1
            0
      1 1
 50
                     0
              0
            1
      0 1
 24
                    0
                 0
      1 1 1
              0
 56 :
                    0
                 0
 36 | 1 0 0 1
         1 1
                    0
              0
 24:
              0 1
         0 1
 42:
       1100
                 1
 50:
       010010
 18
```

From 18, We need to Extract a distinct. Number XOR = 36.50.50.44.56.36.04.42.42.90 = 56.44.0 = 18we con also write 18 as 56.42

Observe, where Ever there is One the bits are different The Rightmost bit tells that O -> makes up 56

1 - makes up 42

[56,42]



010010