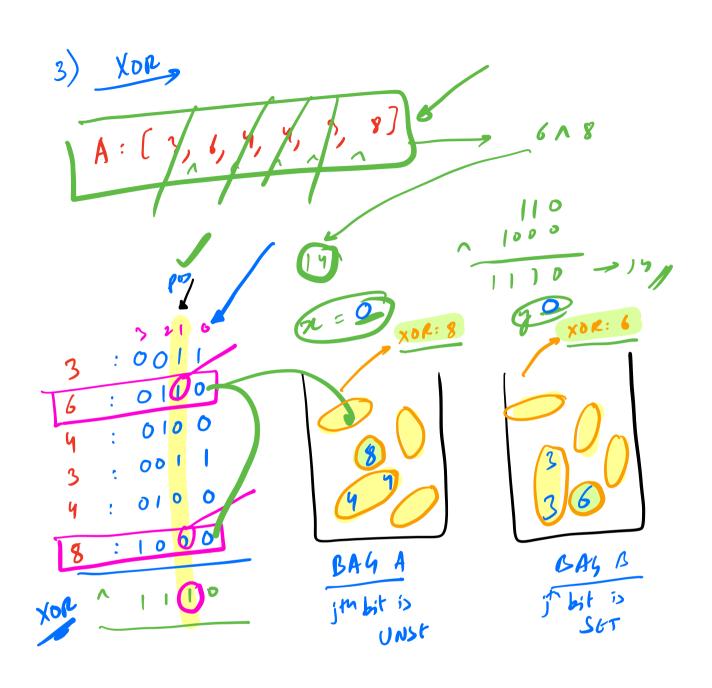
& Given N elements. Every element repeats timice except 2 elements, which occur enaity once! ther 2 clements! find ANS 8) - (6,87 (2/2) (SC = O(N) Sortal A: [33 TC: O(N 4 N)

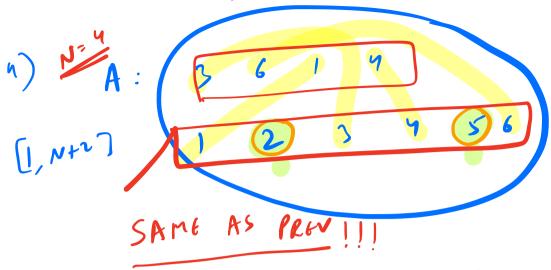


Given an Array of Sice N.

Array contains all elements in [1, N+2]

Array contains all elements in [1, N+2]

except 2 elements. First the 2 missing elements.  $A:[3,6,1,4] \rightarrow (2,5)$ TC:O(NYN) SC = O(1) TECHNI got SEND HOME



```
xoz=0
f(i:0\rightarrow N-i)
xoz=xoz \land A(i)
f(i:1\rightarrow N+2)
xoz=xoz \land i
xoz=xoz \land i
```

TC: G(N),

Given N elements.

(alcolate the XOR sor of all pairs.

A: [3, 5, 6, 8, 2]

Ans tone tone tone

SAN + SAN + SAN + SAN = 2xx

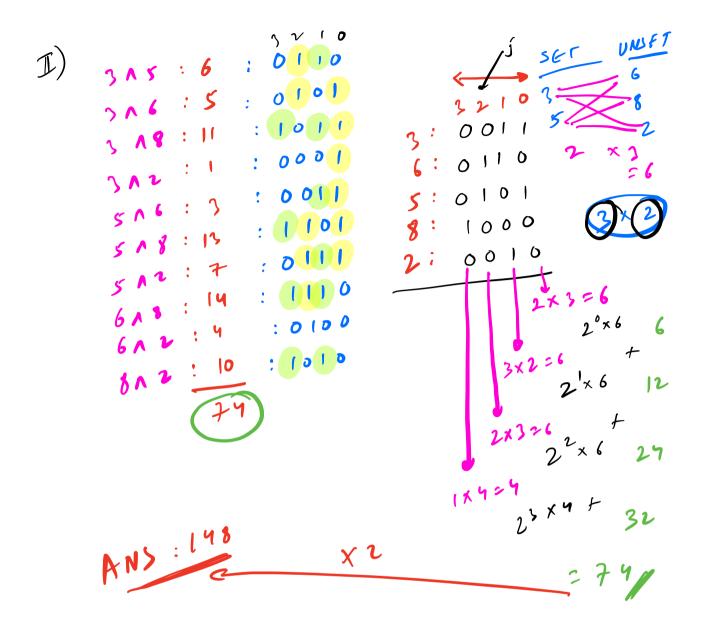
(AA) + 6AS + 6A6 + 6A1 + 6A2

(AA) + 6AS + 9A6 + 1A9 + 2A2

2.3 + 2AS + 2A6 + 1A9 + 2A2

T) Of to (NY)

TSC O(1)



\_

$$\frac{m-bis}{\rightarrow} \sim \log_2(MAX(A)) \rightarrow N$$

$$\frac{ANS}{\rightarrow} = 0$$

$$f(j: 0 \rightarrow m-bis) \{$$

$$(2eno = 0, cOm = 0)$$

$$f(i: 0 \rightarrow N-1) \{$$

$$if((A[i] \times (1cxj)) \neq 0) \in One + +;$$

$$cls \quad c2eno + +;$$

$$dNS + = (1ccj) \times (2eno \times cOne;$$

$$TC = 0(\log_2(Men(A)) \times N)$$

$$\frac{1}{SC = O(1)}$$

Given a array.

find the MAX value of (A(i) of A(j)) of (i,j) i #j A: [27, 18, 20] 20: 410 100 13: 10010 MAX 19: 10010 A: [26, 13, 23, 28, 27, 7, 25] 27:11011 AND: [11010]