Day -10

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-: Lacture - 10 :-

-: Array Problem :-

Q-1 swap alternate

odd
- i/p → arr[5] = { 1, 2, 7, 8, 5 }
- o/p → arr[5] = { 2, 1, 8, 7, 5 }

even
- i/p → arr[6] = { 1, 3, 5, 9, 11, 12 }
- o/p → arr[6] = { 3, 1, 9, 5, 12, 11 }

Index

5	2	9	4	7	6	1	0
i=0	1	2	3	4	5	6	7.

i < size size → array length

1 < 8 —— inside the array

then swap.

increment by 2. in for loop.

i = i + 2

= Swap without swap function :-

with third variable

Swap(arr[0], arr

```
tem = arr[1];
arr[1] = arr[0];
arr[0] = temp;
```

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Q-2 Given array of size 'n' and n = 2m+1 → odd.

You have been an integer arraylist (ARR) of size N where N is equal to [2m+1].

Now in given arraylist. M number are present twice and one number are present once

Solve:

| | | | - - - - | | | 2m+1

'm' number → twice
1 number → appear once

m = 3

| 3 | 7 | 2 | 2 | 7 | 3 | 4 | → 1

Ex:-
-10 + 10 - 10 + 10 +

for this fin 1.

Same input zero

XOR :- a ^ a = 0

2 3 1 6 3 6 2

2 ^ 3 ^ 1 ^ 6 ^ 3 ^ 6 ^ 2

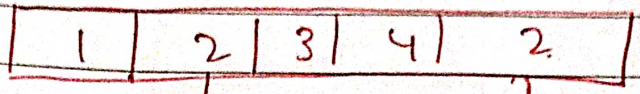
= 0 ^ 0 ^ 0 ^ 0 ^ 1 => 1.

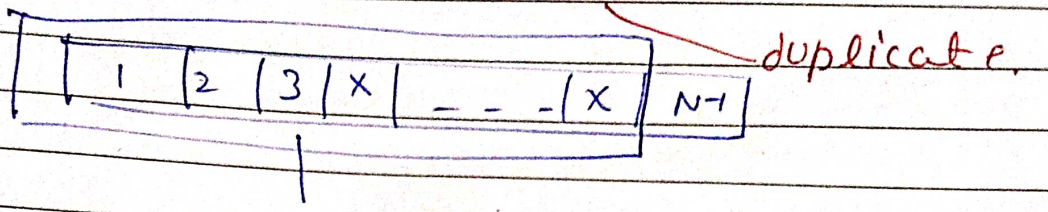
= Leet code :-
Unique no. of occurrence :-

Ex. { 3 1 1 3 4 5 5 5 4 4

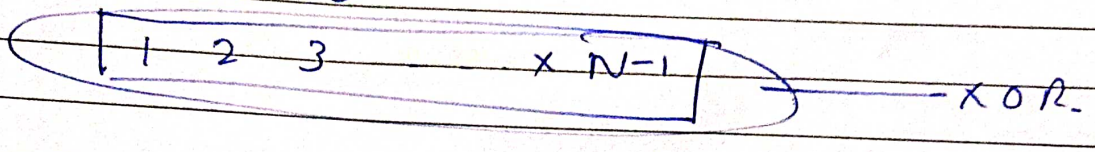
1 → 2
3 → 2 } ~~same~~ not unique
4 → 4 return false
5 → 3

Q- find duplicate of an array :- N=5 , [1, N-1]





XOR.
Cancel.



Vectorg → dynamic sort of array.

Q. Intersection ⟶ common element

→ No. present ⟶ (-1) arg

→ Sorted [non dec-order

Ex {1 2 3}
{3, 4}
3.