Majority Element (which appears More than $N/2$ times).

↳ ① look for element using 2 loops , ↳ Floor.

use a count var → $O(n^2)$

↳ ② use set / hashmap → $O(n)$.

↳ ③ Moore's voting Algo.

↳ It about 2 variables

① element

② count.

↳ if count is zero , we haven't taken any array. if we take an element

perform { elem = — }

count + = 1

arr = [7 7 5 7 5 1 5 7 5 5 7 7 5 5 5]

el = None

count = 0

→ el = 7

count = ✗ ✗ ✗ ✗ ✗ 0

↳ check if the next elem is same or not

if same :

Count + = 1

else {

Count − −

↳ Now this states that 7 7 5 7 5 1

7 appeared 3 times

other elems appeared 3 times.

→ we assume that elem will be our answer.

This wont our answer

because the elemet should appear more than N/2 not exactly N/2 , so there will be only one elemt from an array which can appear more than N/2.

→ el = 5
count = ✗ 0

→ el = 5
cnt = ✗ ✗ ✗ 0

→ el : 5
count = ✗ ✗ ✗ 4

∴ 5 is the answer.

We need to cross verify it if they mention that there may or maynot be a solution.

run a loop on the val count

Check if it's greater than n//2

Then return that - element

else return -1.

└) consider the last array part

if it was 1 1 1 1 rather than 5555 it will give answer as 1 which isn't correct.