

Element-I & II

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229. Majority Element II Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times. Veril; cation. 169. Majority Element 1 majority Easy 17099 7 502 Add to List Share Given an array nums of size n, return the majority element. The majority element is the element that appears more than [n / 2]times. You may assume that the majority element always exists in the array. J Brute Force → Simply count frequency of each element. O (W) or 4loorika

Tow its working: (What's interesting???)

$$\begin{bmatrix}
 2, 2, 1, 1, 2 \\
 1, 1, 2 \\
 2
 \end{bmatrix}
 \begin{bmatrix}
 n = 7 \\
 (72)=3
 \end{bmatrix}$$



$$\frac{n+1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{3}{4}$$

$$\frac{3}{4}$$

$$\frac{3}{8}$$

7-4=2

 $(2) maj ellet \leftarrow \lfloor n/3 \rfloor \leftarrow$ $3 maj ellet \leftarrow \lfloor n/4 \rfloor \leftarrow$ $(k-1) n \cdot ellet \leftarrow \lfloor n/K \rfloor$

$$\begin{bmatrix} n/3 \\ 5 \\ 2 \end{bmatrix}$$

$$\begin{bmatrix} n=9 \\ 1/3 \\ 1=3 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}$$
, $\begin{bmatrix} 2 & 2 & 2 \\ 2 & 2 & 2 \end{bmatrix}$, $\begin{bmatrix} 2 & 2 & 2 \\ 2 & 2 & 2 \end{bmatrix}$, $\begin{bmatrix} 2 & 2 & 2 \\ 2 & 2 & 2 \end{bmatrix}$

Story to code

Count = D C Dunt 1 maj = NULL; Court 2 mg/2 for (int i = 0; 1<n; i++) of if (count = =0) of moj = numisi); <- nucoj Count =1 } else i] (numsfi] = = maj) {) else { Cout -- . retur maj; # verification. find free g Important coach ... n/3]

ma-I.

