

Given array of size n , give majority element.

Majority Element: an element that appears more than $n/2$ times

$$\text{Count} = \begin{cases} 3 & 2 \\ 2 & 1 \end{cases}$$

$$n/2 \rightarrow \text{count}$$

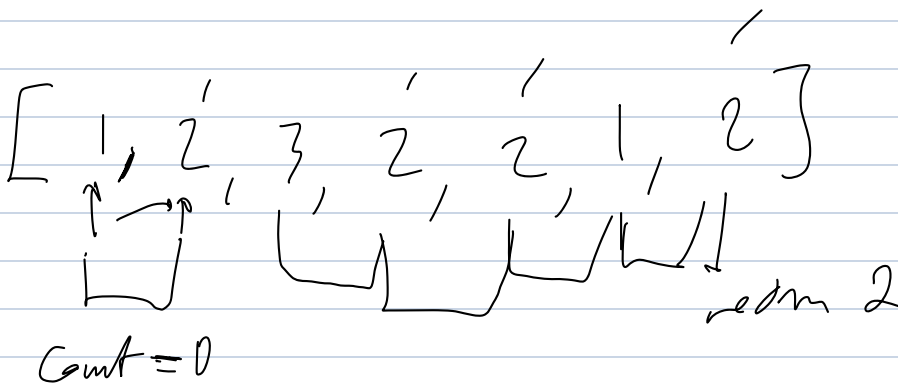
$$O(n) \rightarrow \text{time}$$

$$O(n) \rightarrow \text{space}$$

How to do it without creating a hashtable?

[3, 2, 3]

[2, 2, 1, 1, 2, 2]



ans = 1

is $1 = 1$? yes \rightarrow Count $++ = 1$

~~Answer~~

is $2 = 1$? no \rightarrow Count $-- = 0$

Count = 0 \rightarrow n + 1