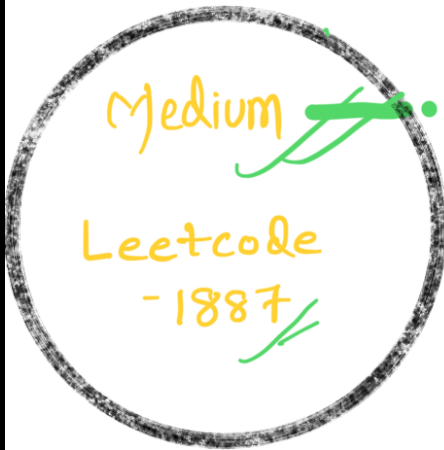


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# ARRAY : Video - 68 ←



...E.A.S.Y...



## Reduction Operations to Make the Array Elements Equal

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Company :- Will soon update ...

## 1887. Reduction Operations to Make the Array Elements Equal

Hint

Medium 565 21

Companies

Given an integer array `nums`, your goal is to make all elements in `nums` equal. To complete one operation, follow these steps:

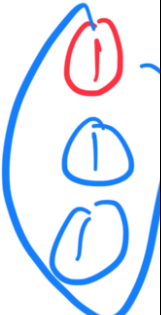
1. Find the **largest** value in `nums`. Let its index be `i` (**0-indexed**) and its value be `largest`. If there are multiple elements with the largest value, pick the smallest `i`.
2. Find the **next largest** value in `nums` strictly smaller than `largest`. Let its value be `nextLargest`.
3. Reduce `nums[i]` to `nextLargest`.

Return the number of operations to make all elements in `nums` equal.

Example :- `nums = {5, 1, 3}`  $\rightarrow$  `{1, 1, 1}`

Output = 3

`{1, 1, 1}`



# Intuition

nums = { 5, 1, 3 }

largest  
sub-array } Sort

Sort:- nums =

0	1	2
{ 1, 3, 5 }		
i	i	i
	1	3

n = 3

$$ops = \textcircled{1} + \textcircled{2} = 3$$

$$L = 3$$

$$SL = 1$$

$$(n-i)$$

$$(3-1) = \textcircled{2}$$

nums = { 1, 1, 2, 2, 3 }

n = 5

$$L =$$

$$SL =$$

$$(n-i)$$

$$ops = \underline{\underline{1 + 3}}$$

$$(5-2) = 3$$

① Sort

① Sort

T.C =  $O(n \log n)$

② for( $i = n-1$ ;  $i \geq 1$ ;  $i--$ ) {

if ( $nums[i] == nums[i-1]$ )

continue;

$ops += (n-i);$  ←

}

return ops;

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million (1990–1999) (Department of Health 2000).

There is a growing emphasis on the importance of the public sector in the provision of health care services, and the need to ensure that the public sector is able to meet the needs of the population. This has led to a number of initiatives aimed at improving the efficiency and effectiveness of the public sector, including the introduction of competition, the restructuring of the public sector, and the introduction of new management practices. These initiatives have led to a number of changes in the way that the public sector operates, and have resulted in a number of improvements in the quality of health care services.

One of the key challenges facing the public sector is the need to ensure that it is able to meet the needs of the population in a cost-effective manner. This requires a number of changes in the way that the public sector operates, including the introduction of competition, the restructuring of the public sector, and the introduction of new management practices.

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