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Maximum Element

After Decreasing and Rearranging

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1846. Maximum Element After Decreasing and Rearranging

Hint

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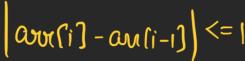
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You are given an array of positive integers arr. Perform some operations (possibly none) on arr so that it satisfies these conditions:

- The value of the first element in arr must be 1
- The absolute difference between any 2 adjacent elements must be less than or equal to 1. In other words, abs(arr[i] - arr[i - 1]) \ll 1 for each i where 1 \ll i \ll arr.length (**0-indexed**). abs(x) is the absolute value of \times .

There are 2 types of operations that you can perform any number of times:

- (Decrease) the value of any element of [arr] to a smaller positive integer.
- Rearrange the elements of arr to be in any order. //

Return the maximum possible value of an element in arr after performing the operations to satisfy the conditions.

t xample :-

$$\omega \omega = \{2, 2, 1, 2, 1\}$$

Output = { 1, 1, 2, 2, 2}

$$av = \{ 100, 1, 1000 \}$$

Output =
$$51, 2, 3$$



Intuition

$$\omega u = \{ 2, 2, 1, 2, 1 \}$$

$$\begin{cases} 100, & 1, & 1000 \end{cases}$$

$$\begin{cases} 1, & 2, & 3 \end{cases}$$

$$\begin{cases} 1, & 2, & 3 \end{cases}$$

$$\begin{cases} 1, & 2, & 3 \end{cases}$$

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