Max Chunks to make an array Sorted-1

Given an arr[N], containing permutation of the integers in the range [0, n-1]. you have to split the array into maximum possible no. of chunks, such that after individual sorting of those chunks, the whole array gets forted

The key Understanding here is, if we sort the elements => the obtained answer will be onr indexes,

So, the question array will be a permutation of indexes only, it won't

So, what are Chunks hove? pastitions" arr(5): {1,0|2|3,43 => if we split the array into 4 parks
and sorting each part individually
the whole array will be sorted Sorting individual I 80 1 2 2 4 } => So, the ans = 4 chunks give us valid result of Sorted But, we can split as:

But, we need to Split the array as Maximum Possible Chunks

Made with Goodnotes

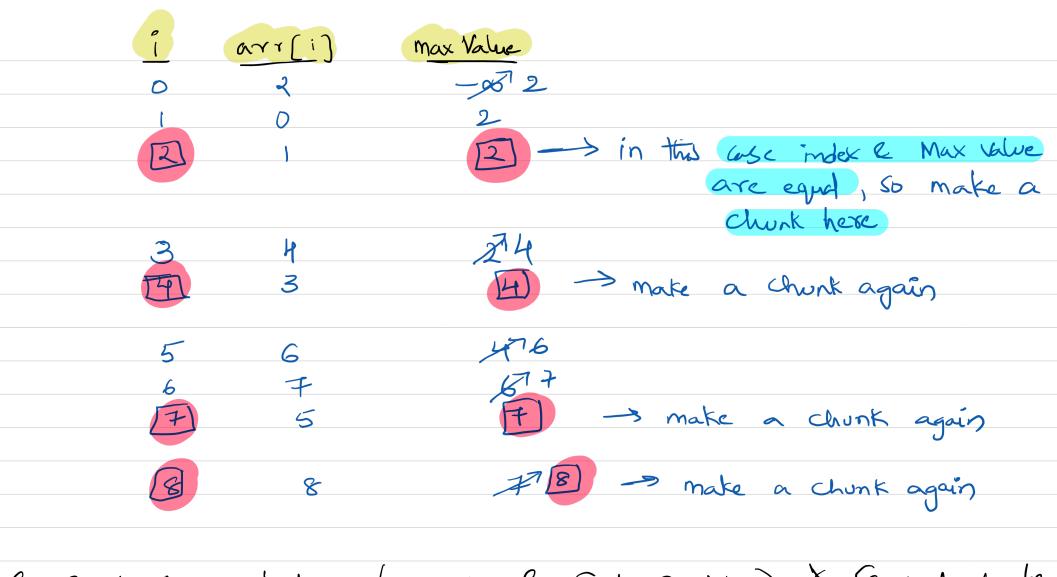
arr(9): $\{2,0,1,4,3,6,7,5,8\}$ Sort individually $\{1,0,2,3,4,5,6,7,8\} \rightarrow \text{whole array is Sorted}$ So, ans = 4 chunks

How

arr(9): {2,0,1,4,3,6,7,5,8}

Steps

Diffyon want to make chunk, Look for maximum index of the chunk $arr(9): § 2, 0, 1, 4, 3, 6, 7, 5, 8 }$



So, simply if you look for (maxualue & Index position) You can make chunks
Note: if already a number positioned in its perfect index, chunk + +