

Binary Search Maylist



Video-(25)

Instagram >> code storywith MIK Twitter -> cswith MIK



codestory with MIK

weekly contest 376 074.



2968. Apply Operations to Maximize Frequency Score

Hard















You are given a **0-indexed** integer array nums and an integer k.

You can perform the following operation on the array **at most** k times:

Choose any index i from the array and increase or decrease nums[i] by 1.

The score of the final array is the **requency** of the most frequent element in the array.

Return the maximum score you can achieve.

The frequency of an element is the number of occurences of that element in the array.

Example: Noms =
$$\{1, 2, 6, 4\}$$
, $K = 3$
output = 3
 $\{2, 2, 6, 3\}$
 $\{2, 2, 6, 2\}$
 $\{2, 2, 6, 2\}$
 $\{3, 2, 6, 2\}$

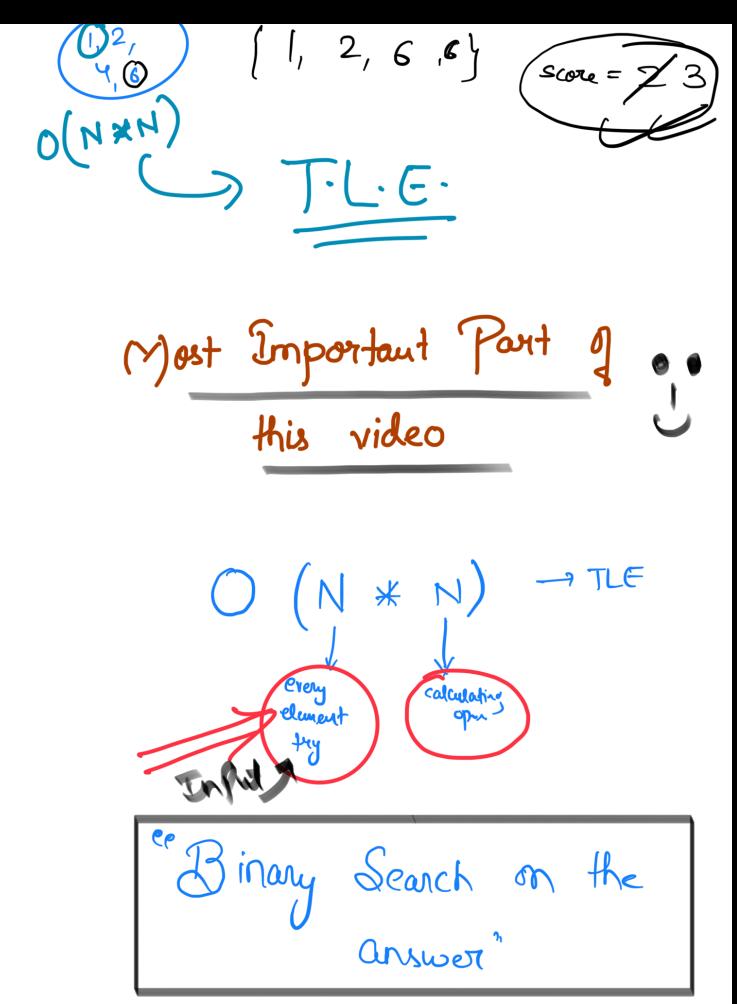
:- Few important Observations

(Sorting) adjacent (closest) clements.

Whini opens

Brute Force =

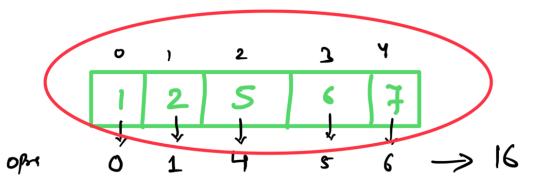
$$\begin{cases} 1, 2, 6, 4 \end{cases}, K = 3 \end{cases}$$
Soul [1, 2, 4, 6]



$$mid$$
-score = $(min$ -score + max -score)/2; $\rightarrow (+4)/2=$

$$K=3$$
 1
 2
 3
 4
 6
 1
 0
 2
 4
 4
 6
 1
 0
 2
 4

Which element will be target ??



(3) = opm 4 3 0 1 2 -> 10

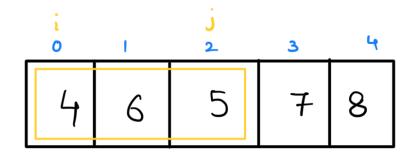
```
=> what did we understand???
```

- (1) Binary Search on answer.
- () Sort the among.
- (.) $\min_{sin} = 1$, $\max_{sin} = n$

Meturn answer;

Possible (mid-score, K);

"We have to check if it's possible to get score = mid-score in nums ouray ??



K= χ