SLIDING WINDOW MECHANISM...

Video - 29

(Instagram, Facebook) → @codestorywithmik

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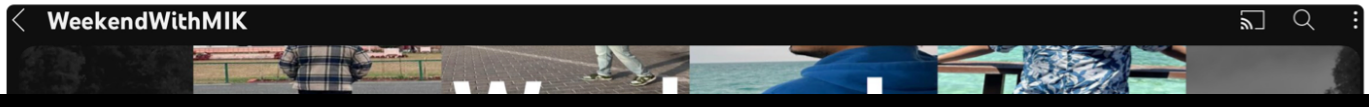
Medium

Leetcode - 3254

Something Big Coming on 100K :)



Try this channel to see "Life behind the Scenes"

Motivation :-

Success comes to those who believe in themselves and dare to act on their dreams...

3254. Find the Power of K-Size Subarrays I

Medium | Topics | Companies | Hint

You are given an array of integers `nums` of length `n` and a *positive* integer `k`.

The **power** of an array is defined as:

- Its **maximum** element if *all* of its elements are **consecutive** and **sorted** in **ascending** order.
- -1 otherwise.

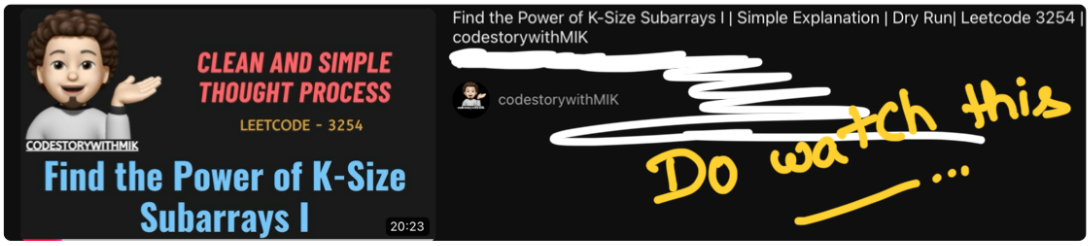
You need to find the **power** of all subarrays of `nums` of size `k`.

Return an integer array `results` of size `n - k + 1`, where `results[i]` is the *power* of `nums[i..(i + k - 1)]`.

Example :- nums = [1, 2, 3, 4, 3, 2, 5], K=3

Output = [3, 4, -1, -1, -1]

i, j



Thought Process

(•) Subarray
(•) size fixed = K
} Sliding window

(•) inc. (order) → Monotonic nature (Stack/Que/Deque)

0 1 2 3 4 5 6 7 8

nums = [1, 2, 3, 4, 3, 2, 5, 6, 7], K=3

i

j

Monotoni Stack Deque

{3, 4, -1, -1, -1, -1, 7}

increa.