ARRAY : Video - 93

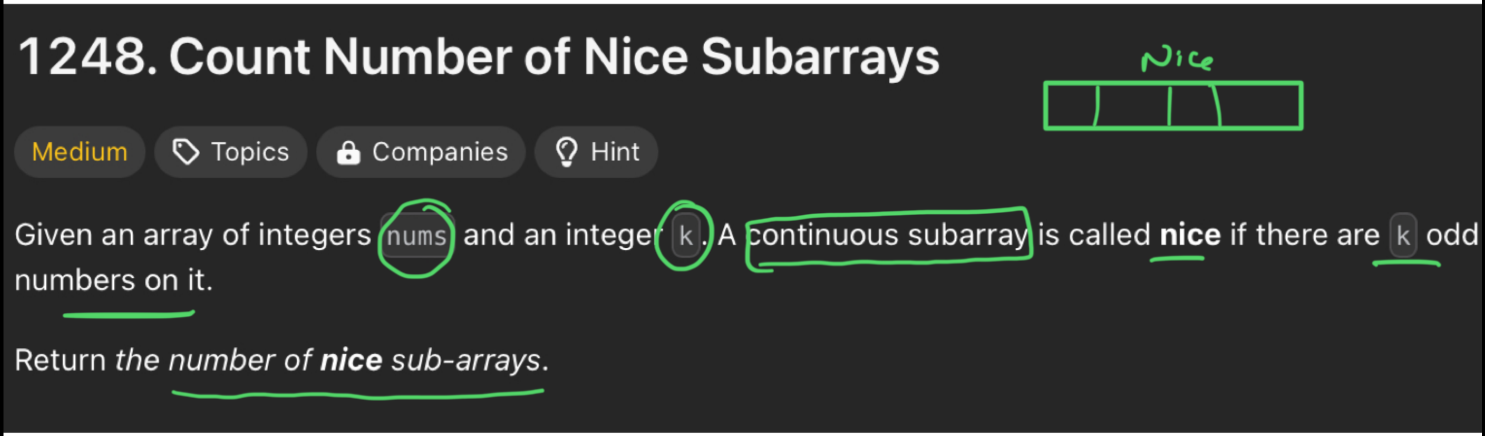
Leetcode - 1248

~~Medium~~ Easy

Facebook, Instagram → codestorywithMIK

(Twitter) → CSwithMIK

codestorywithMIK →



1248. Count Number of Nice Subarrays

Given an array of integers `nums` and an integer `k`. A continuous subarray is called **nice** if there are `k` odd numbers on it.

Return *the number of* ***nice*** *sub-arrays*.

Example :- nums = [7, 1, 2, 3, 5] , K = 3

Output = 2

7, 1, 2, 3

~~7, 1, 2, 3, 5~~

1, 2, 3, 5

Thought Process...

0 1 2 3 4

nums = {7, 1, 2, 3, 5} , K= 3

ODD ODD Even ODD ODD

0 1 2 2 3 4

{7, 1, 2, 3}

{1, 2, 3, 5}

3 − K = 0

Subarray having sum == K

0 1 2 3 4

{7, 1, 2, 3, 5} , K=3

ODD Count = 0 {1, 2, 2, 3, 4}

4-K = 4-3 = 1

$\{\overset{0}{1}, \overset{1}{1}, \overset{2}{2}, \overset{3}{1}, \overset{4}{1}\}$, K=3

1　　　4

map

0 → 1

1 → 1

2 → 2

3 → 1

ODDCount = 4

4 - K = 4 - 3 = 1

result = 1 + 1 = 2

$\{\overset{0}{2}, \overset{1}{1}, \overset{2}{2}, \overset{3}{1}\}$, K=1

0　0　1　1　2

map

0 → 2

1 → 2

2 → 1

ODDCount = 2

2 - K = 2 - 1 = 1

result = 2 + 2 + 2 ✓

Sliding Window

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

$\cancel{i}$ $\cancel{i}$ i $\cancel{j}$ j

result = 1+1 ~~✓~~

oddCount = $\cancel{3}\cancel{2}\cancel{3}$ 2

{2, 1}, K=1