1248. Count Number of Nice Subarrays

Solved 🕝

Medium ♥ Topics ♠ Companies ♀ Hint

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 1:

```
Input: nums = [1,1,2,1,1], k = 3
Output: 2
Explanation: The only sub-arrays with 3 odd numbers are [1,1,2,1] and [1,2,1,1].
```

Example 2:

```
Input: nums = [2,4,6], k = 1
Output: 0
Explanation: There are no odd numbers in the array.
```

> It is 31d type of Striver window

```
Approach:-
class Solution {
                                                  number of subarray having number of odd digit is less than k
   public int numberOfSubarrays(int[] nums, int k) {
       return cntNum(nums , k)-cntNum(nums , k-1);
                                                  Gollet related to formula (2-141)
   public static int cntNum(int[] nums , int k){
       int cnt=0 ,l=0 , r=0 ,odd=0, n=nums.length;
                                                      1. 97-1+1 (1enth & array blo 2, and 1) -
       while(r<n){</pre>
          if(nums[r]%2!=0){
                                                      2.9-1+1 (NO.07 Subarray having end 12' as clement
              odd++;
          while(odd>k){
             • if(nums[1]%2!=0) odd--;
                                                  Example 012
              1++;
          if(odd<=k){</pre>
            cnt += (r - 1 + 1);
          r++;
       return cnt;
```

```
class Solution {
                                                 : number of subarray having the sum is less than k
   public int numberOfSubarrays(int[] nums, int k) {
                                                 Example
                                                           $1,1,2,1,17 K=3
      return cntNum(nums , k)-cntNum(nums , k-1);
                                                            3) Remove odd Number to 1
   public static int cntNum(int[] nums , int k){
      int cnt=0 ,l=0 , r=0 ,odd=0, n=nums.length;
                                                              Remove even Number to 0
      while(r<n){</pre>
          if(nums[r]%2!=0){
                                                              {1,1,0,1,1} K=3
             odd++;
                                                                NOW - Number of subarray having Burn is less
          while(odd>k){
             if(nums[1]%2!=0) odd--;
                                                                     than (K<=3)
                                                 Note:
                                                   * perch that & 1, 3/12 change and #1
          if(odd<=k){</pre>
           cnt += (r - 1 + 1);
          r++;
      return cnt;
   }
```