

Que

930. Binary Subarrays With Sum

Solved

Medium

Topics

Companies

Given a binary array `nums` and an integer `goal`, return *the number of non-empty **subarrays** with a sum `goal`*.

A **subarray** is a contiguous part of the array.

Example 1:

**Input:** `nums = [1,0,1,0,1]`, `goal = 2`

**Output:** `4`

**Explanation:** The 4 subarrays are bolded and underlined below:  
`[1,0,1,0,1]`  
`[1,0,1,0,1]`  
`[1,0,1,0,1]`  
`[1,0,1,0,1]`

Example 2:

**Input:** `nums = [0,0,0,0,0]`, `goal = 0`

**Output:** `15`

→ 'sum is equal to k' (type 3)  
    ↳ only thing is that goal may be (-ve)  
    ↳ if goal is -ve, return '0';

Sol	<pre>class Solution {     public int numSubarraysWithSum(int[] nums, int k) {         return noOfSum(nums,k)-noOfSum(nums,k-1);     }     public static int noOfSum(int[] nums ,int k ){         if (k &lt; 0) return 0;         int l=0 , r=0 , sum=0 , n=nums.length;         int cnt=0;         while(r&lt;n){             sum+=nums[r];             while(sum&gt;k){                 sum-=nums[l]; l++;             }             cnt+=r-l+1;             r++;         }         return cnt;     } }</pre>	Tc -- O(n) SC -O(1)
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