



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

## F. Yamakasi

time limit per test: 3 seconds memory limit per test: 256 megabytes

You are given an array of integers  $a_1, a_2, \ldots, a_n$  and two integers s and x. Count the number of subsegments of the array whose sum of elements equals s and whose maximum value equals x.

More formally, count the number of pairs  $1 \le l \le r \le n$  such that:

- $\bullet \ \ a_l+a_{l+1}+\ldots+a_r=s.$
- $\bullet \ \max(a_l, a_{l+1}, \ldots, a_r) = x.$

## Input

Each test consists of multiple test cases. The first line contains a single integer t (  $1 < t < 10^4$ ) — the number of test cases. The description of the test cases follows.

The first line of each test case contains three integers n,s, and x ( $1 \le n \le 2 \cdot 10^5$ ,  $-2 \cdot 10^{14} \le s \le 2 \cdot 10^{14}$ ,  $-10^9 \le x \le 10^9$ ).

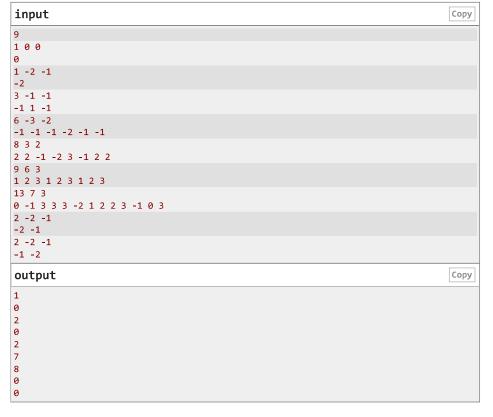
The second line of each test case contains n integers  $a_1, a_2, \ldots, a_n$   $(-10^9 \le a_i \le 10^9)$ .

It is guaranteed that the sum of n across all test cases does not exceed  $2\cdot 10^5$ .

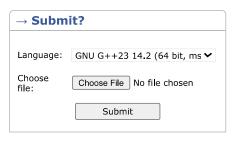
#### Output

For each test case, output the number of subsegments of the array whose sum of elements equals s and whose maximum value equals s.

# Example







→ Last submissions		
Submission	Time	Verdict
<u>324838186</u>	Jun/17/2025 18:11	Accepted

## Note

In the first test case, the suitable subsegment is l=1 , r=1.

In the third test case, the suitable subsegments are l=1, r=1 and l=3, r=3.

In the fifth test case, the suitable subsegments are l=1, r=3 and l=6, r=8.

In the sixth test case, the suitable subsegments are those for which r=l+2.

In the seventh test case, the following subsegments are suitable:

- l = 1, r = 7.
- l = 2, r = 7.
- l = 3, r = 6.
- l = 4, r = 8.
- l = 7, r = 11.
- l = 7, r = 12.
- l = 8, r = 10.
- l = 9, r = 13.

Codeforces (c) Copyright 2010-2025 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Jun/17/2025 22:13:10<sup>UTC+7</sup> (k1).
Desktop version, switch to mobile version.
Privacy Policy | Terms and Conditions

Supported by



