



# Java Subarray ☆

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**Problem**

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We define the following:

- A subarray of an  $n$ -element array is an array composed from a contiguous block of the original array's elements. For example, if  $array = [1, 2, 3]$ , then the subarrays are  $[1]$ ,  $[2]$ ,  $[3]$ ,  $[1, 2]$ ,  $[2, 3]$ , and  $[1, 2, 3]$ . Something like  $[1, 3]$  would not be a subarray as it's not a contiguous subsection of the original array.
- The sum of an array is the total sum of its elements.
  - An array's sum is negative if the total sum of its elements is negative.
  - An array's sum is positive if the total sum of its elements is positive.

Given an array of  $n$  integers, find and print its number of negative subarrays on a new line.

**Input Format**

The first line contains a single integer,  $n$ , denoting the length of array  $A = [a_0, a_1, \dots, a_{n-1}]$ .

The second line contains  $n$  space-separated integers describing each respective element,  $a_i$ , in array  $A$ .

**Constraints**

- $1 \leq n \leq 100$
- $-10^4 \leq a_i \leq 10^4$

**Output Format**

Print the number of subarrays of  $A$  having negative sums.

**Sample Input**

```
5
1 -2 4 -5 1
```

**Sample Output**

```
9
```

**Explanation**

There are nine negative subarrays of  $A = [1, -2, 4, -5, 1]$ :

- $[1 : 1] \Rightarrow -2$
- $[3 : 3] \Rightarrow -5$
- $[0 : 1] \Rightarrow 1 + -2 = -1$
- $[2 : 3] \Rightarrow 4 + -5 = -1$
- $[3 : 4] \Rightarrow -5 + 1 = -4$
- $[1 : 3] \Rightarrow -2 + 4 + -5 = -3$
- $[0 : 3] \Rightarrow 1 + -2 + 4 + -5 = -2$
- $[1 : 4] \Rightarrow -2 + 4 + -5 + 1 = -2$
- $[0 : 4] \Rightarrow 1 + -2 + 4 + -5 + 1 = -1$

Thus, we print 9 on a new line.

Author

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Difficulty

Easy

Max Score

10

Submitted By

45265

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```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to STDOUT.
7         Your class should be named Solution. */
8     }
9 }
10
11
```

Line: 1 Col: 1

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