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DETAILS

Name

DEEPIKA KACHAPUR

Roll Number

3BR23CS044

EXPERIMENT

Title

ANT ON RAIL

Description

There is a ant on your balcony. It wants to leave the rail so sometimes it moves right and sometimes it moves left until it gets exhausted. Given an integer array A of size N which consists of integer 1 and -1 only representing ant's moves.

822.

Where 1 means ant moved unit distance towards the right side and -1 means it moved unit distance towards the left .Your task is to find and return the integer value representing how many times the ant reaches back to original starting position.

-50AA 3BR23C50AA 3BR23C50AA 3BR23C50AA

Note:

- Assume 1-based indexing
- Assume that the railing extends infinitely on the either sides

Input Format:

input1: An integer value N representing the number of moves made by the ant.

3BR23C50AA3BR23C50AA3BR23C50A

input2: An integer array A consisting of the ant's moves towards either side

Sample Input

1 -1 1 -1 1

Sample Output

3BR23C50AA3BR23C5V Source Code:

9/27/24, 9:22 PM 3BR23CS044-Ant on Rail

```
def count_returns_to_start(N,A):
        current_position=0
        return_count=0
        for move in A:
            current_position+=move
            if current_position==0:
               return_count+=1
        return return_count
    N=int(input())
    A=list(map(int,input().split()))
    result=count_returns_to_start(N,A)
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```