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DETAILS

Name

N SHAHINAZ

Roll Number

3BR23CS106

00 **EXPERIMENT**

Title

ANT ON KAIL

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.

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.

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.

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

Sample Input

1 -1 1 -1 1

Sample Output

Source Code: 38R23C51063BR23C3 9/28/24, 1:30 PM

```
3BR23CS106-Ant on Rail
    def count_returns(N, A):
        position=0
        return_count=0
        for move in A:
            if move==1:
                position+=1
            elif move==-1:
                position-=1
            if position==0:
                return_count+=1
        return return_count
    N=int(input())
    A=list(map(int,input().split()))
    result=count_returns(N, A)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 \%
```