:02

CEOT

402

ECED 21 TEMP BTE CITY ECED 21 TEMP BTE CITY

ECHO21 TEMPBTech. ECHO21 TEMPBTech. ECHO21 TEMPBT.

ECEO.

400

DETAILS

Name

M ADITYA

Roll Number

TEMPBTech-ECE021

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.

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.

TEMP BIECH. ECED 21 TEMP B

ECEO 21 TEMP BT ech. ECEO 21 TEMP BT ech.

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

Sample Input

1 -1 1 -1 1

Sample Output

TEMP BTech. ECEO 21 TEMP BTec. ECEO27 LEMBBLECHTE **Source Code:** LEMPE

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