823

-5063 38R23C5063 38R23C5063 38R23C5063

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DETAILS

Name

HARSHITHA T

Roll Number

3BR23CS063

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.

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.

3BR23C5063 3BR23C506063 3BR23C50606 3BR25C50606 3BR25

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

Sample Input

1 -1 1 -1 1

Sample Output

3BR23C50633BR23C50 Source Code:

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