0080

30

D0863BR23CD0863BR23CD0863BR23CD0863BR23CD0



508

26 38

DETAILS

Name

SANJANA V CHOUDHARI

Roll Number

3BR23CD086

086

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

823

Input Format:

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

3BR23CD086 3BR23CD086

38R23CD0863BR23CD0863BR23CD086

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

Sample Input

1 -1 1 -1 1

Sample Output

38R23CD0863BR23CD0863BRL 38R23CD0863BR23CV Source Code:

9/28/24, 1:33 PM 3BR23CD086-Ant on Rail

```
def count_returns_to_start(A):
                                                                                                    23CV 23CV 23CD086 3BR23CV 23CD086
        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()))
    print(count_returns_to_start(A))
RESULT
 5 / 5 Test Cases Passed | 100 %
```