3822

101



101

384

DETAILS

Name

SHRAVANI B

Roll Number

3BR23CA101

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.

38R23CA1013BR23CA1013BR23CA1013V

A10138R23CA10138R23CA10138R23CA10

Note:

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

230

Input Format:

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

3BR23CA1013BR23CA1013BR23CA1

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

Sample Input

1 -1 1 -1 1

Sample Output

38R23CA70138R23CA70138R22 3BR23CA1013BR23CA. **Source Code:** 38R23CP

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```
3BR23CA101-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 \%
```