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## DETAILS

#### Name

Sneha

**Roll Number** 

3BR23EE096

## **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

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#### **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**

# 3BR23EE0963BR23EE0963BR22. 3BR23EE0963BR23EEU Source Code: 3BR23E1

9/26/24, 10:52 AM 3BR23EE096-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)
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RESULT
 5 / 5 Test Cases Passed | 100 %
```