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CON

BRZT

## DETAILS

#### **Name**

**V SAVITRI** 

Roll Number

3BR23CD102

### **EXPERIMENT**

## Title

ANT ON RAIL

### 20102 **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.

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38R23CD1023BR23CD1023BR23CD101

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

#### Sample Input

5

1 -1 1 -1 1

#### **Sample Output**

# 38R23CD10238R23C Source Code:

9/28/24, 3:44 PM 3BR23CD102-Ant on Rail

```
def count_returns_to_start(N, A):
    current_position = 0
    return_count = 0

for move in A:
    current_position == 0:
    return_count += 1

return return_count += 1

return return_count

# Example usage:
    N = int(input())
A = list(map(int,input().split())) # Example moves
    result = count_returns_to_start(N, A)
    print(result) # Output: 3

RESULT

0/5 Test Cases Passed | 0 %
```