3827

062



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388

# DETAILS

#### Name

HARSHITA S S

Roll Number

3BR23CS062

### **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.

23BR23C50623BR23C50623BR23C50623

2C50623BR23C5062

#### 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.

3BR23C5062 3BR25C5062 3BR25C5062

38R23C50623BR23C50623BR23C5062

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

### Sample Input

5

1 -1 1 -1 1

#### **Sample Output**

# 38R23C50623RR23C-Source Code:

9/27/24, 7:12 PM 3BR23CS062-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

# 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

5 / 5 Test Cases Passed | 100 %
```