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STUDENT REPORT

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# DETAILS

#### Name

K IFFATH FATHIMA

Roll Number

KUB23CSE056

# **EXPERIMENT**

Fitle

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

5

EDZO FIRE

1 -1 1 -1 1

### **Sample Output**

LUB23C5E056 LUB23C5E056 + Source Code:

9/27/24, 1:44 PM KUB23CSE056-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 %
```