CEO

1823

3ECEO 1 A KUB23ECEO 1 A KUB23E

A



# STUDENT REPORT

## **DETAILS**

#### Name

HARSHITHA P

#### Roll Number

KUB23ECE014

### **EXPERIMENT**

# Se 23t 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

£01A

#### **Input Format:**

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

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

#### Sample Input

5

1 -1 1 -1 1

#### **Sample Output**

# FIB53ECEO1W FIB533 Source Code: FUBS3E

9/28/24, 6:41 AM KUB23ECE014-Ant on Rail

```
def count_return_to_origin(N,A):
    position = 0
    return_count = 0

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

    return return_count

N = int(input())
A = list(map(int,input().strip().split()))[:N]

print(count_return_to_origin(N, A))

RESULT

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