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NPB1

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Jet

## **DETAILS**

#### Name

M R PRASANNA LAKSHMI

#### **Roll Number**

TEMPBTech-EEE077

#### **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.

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

#### Sample Input

1 -1 1 -1 1

#### **Sample Output**

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# TEMP8 Tech. EEEO TITE **Source Code:** LEW BLE

```
def count_return_to_origin(N,A):
current_position=0
count=0
for move in A:
    current_position+=move
    if current_position==0:
        count+=1
    return count
N=int(input())
A=list(map(int,input().split()))
assert len(A)==N,"length of array must match N"
result=count_return_to_origin(N,A)
print(result)
```

### **RESULT**

5 / 5 Test Cases Passed | 100 %

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https://practice.reinprep.com/student/get-report/17dae6b9-7bf4-11ef-ae9a-0e411ed3c76b