

Logo



## STUDENT REPORT

### DETAILS

**Name**

A VARUN KUMAR

**Roll Number**

22BI24ME460-T

### 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.

#### 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.

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

#### Sample Input

5

1 -1 1 -1 1

#### Sample Output

2

### Source Code:

```
N=int(input())
L=list(map(int,input().split()))
cs=0
count=0
for i in L:
    cs+=i
    if(cs==0):
        count+=1
print(count)
```

## RESULT

5 / 5 Test Cases Passed | 100 %