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STUDENT REPORT

DETAILS

Name

H ANUSHA

Roll Number

KUB23ECE004

EXPERIMENT

Service 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.

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

Sample Input

5

1 -1 1 -1 1

Sample Output

KNB53ECEOOK KNB53ECEOOK K LUB23ECE00A LUB23V **Source Code:** FUBS3E

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```
KUB23ECE004-Ant on Rail
    def count_return_to_origin(N,A):
        position =0
        return_count=0
        for move in A:
            position += move
            if 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 %
```