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STUDENT REPORT

DETAILS

Name

Aman T

Roll Number

KUB23CSE007

EXPERIMENT

STitle

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

E001 F18;

1 -1 1 -1 1

Sample Output

** KNB23CSE001 KNB23 Source Code:

9/27/24, 12:57 PM KUB23CSE007-Ant on Rail

```
def count_returns_to_start(N, A):
        current_position = 0
        return_count = 0
        for move in A:
            current_position += move
            if 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 and
RESULT
 5 / 5 Test Cases Passed | 100 %
```