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# DETAILS

Name

N NIKHIL

Roll Number

3BR23CD063

# **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.

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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.

28R23C106338R23C10633R223C106338R23C106338R23C106338R23C10633R223C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1063R220C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R200C1068R2000C1068R2000C1068R2000C1068R2000C1068R2000C1068R2000C1068R200000

38R23CD0633BR23CD063BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR23CD065BR25CD065

38R23CD063 3BR23CD063 3BR23CD063

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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.

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

## Sample Input

5

1 -1 1 -1 1

### **Sample Output**

3BR23CD0633BR23CD0633BF Source Code: 3BR23C10633BR23C

```
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

RESULT

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