,0683BR232C Logo STUDENT REPORT DETAILS Name PRAVEEN KUMAR L 8P23 683 CDO Roll Number 68 3BR23CD068 **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.

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:

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```
{\tt 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)
RESULT
  5 / 5 Test Cases Passed | 100 %
        (8 3°)
                        (D00
```