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### STUDENT REPORT

# DETAILS

#### Name 🔎

MOHAMMAD KOUSER

#### Roll Number

3BR23CA070

#### **EXPERIMEN**

#### Title

A010385

EQUILIBRIUM

#### Description

You are given an array A of N integers. An equilibrium position is a position where the sum of all integers on its left is equal to the sum of all integers on its right in the array A. Print the index of the equilibrium position.

Note: For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND" without quotes.

The array is 1 indexed.

#### **Input Format:**

The input consists of two lines:

The first line contains an integer denoting N.

The second line contains N space-separated integers denoting the elements of the array A.

Input will be read from the STDIN by the candidate

#### **Output Format:**

Print the index of the equilibrium position. If no index is found, print "NOT FOUND"

#### Sample Input

5

24733

#### **Sample Output**

3

## Source Code:

https://practice.reinprep.com/student/get-report/f6116063-7c80-11ef-ae9a-0e411ed3c76b

BR23

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```
3BR23CA070-Equilibrium
    def find_equilibrium_position(N, A):
        total_sum = sum(A)
        left_sum = 0
        for i in range(N):
            right_sum = total_sum - left_sum - A[i]
            if left_sum == right_sum:
                return i + 1
            left_sum += A[i]
        return "NOT FOUND"
    # Input reading
    N = int(input())
    A = list(map(int, input().split()))
                                                                                                           38R233CAOTO 38R233
    result = find_equilibrium_position(N, A)
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 \%
```