3886

036

STUDENT REPORT

DETAILS

Name, o

K DEEPIKA

Roll Number

3BR23CD036

EXPERIMENT Title

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

384

,036

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:

```
3BR23CD036-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()))
                                                                                                           38R23CD03638R22.
    result = find_equilibrium_position(N, A)
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```

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