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

Note: For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND"

## **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:

3827

```
3BR23CD089-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()))
                                                                                                           38R23CD089 3BR2:
    result = find_equilibrium_position(N, A)
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```