

STUDENT REPORT

Name Contract of the Contract

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

Output Format:

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

2CR08638.

2822.

286 3°

30A

Sample Input

A086 38223CA

Sample Output

RESULT

3882

5 / 5 Test Cases Passed | 100 %

0863

Roll Number

3BR23CA086

Source Code:

```
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()))
                                                                                   result = find_equilibrium_position(N, A)
    8,82,3CA 086 3BR23CA 086 3BR23
386 3BR23CA086 3BR23CA086 3BR23CA086 3BR23CA086
                                                                                  print(result)
                                                                                                                                       36 3BR23CA086 3BR23CA0
```

2CAOL

-8R23

286 3°