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R13C51	Roll Number 3 St. CS No. 18 St	<u>~</u>
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93BR13	3BR23CS109 **PERIMENT** itle EQUILIBRIUM Description** And Nictory And April 10 10 10 10 10 10 10 10 10 10 10 10 10	7093E
	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	5,000
~	of all integers on its right in the array A. Print the index of the equilibrium position.	
R13C51	Note :For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND" without quotes.	3BR13(
	The array is 1 indexed.	>)
55 ¹⁰⁹ 35		2
5	Input Format:	2230510
	The input consists of two lines:	5-
S 3BRIZ	The first line contains an integer denoting N.	.8
9	The second line contains N space-separated integers denoting the elements of the array A.	5,5,00 38
	Input will be read from the STDIN by the candidate	50
R13C51C	Output Format:	~°°
R	Print the index of the equilibrium position. If no index is found, print "NOT FOUND"	388236
	Sample Input	,
55,00° 35	5	28
0	24733	363 (Oz.)
0.3	Sample Output	
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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)
   print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```