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TEMPBTech-CSE041
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EXPERIMENT: ON THE TREE TO SELDAN TEMPETER SEL
EQUILIBRIUM EQUIL
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.
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Input Format:
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The input consists of two lines:
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Input will be read from the STDIN by the candidate
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Sample Input
Sample Input 5
24733
Sample Output
Source Code: Partie Control of the C

```
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 %
```