Logo OETAILS
Name STUDENT REPORT J JAYALAKSHMI 38 0000 300 230 Roll Number 3BR23CD030 EXPERIMENT OF Title 030 EQUILIBRIUM 38R2 :0030 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 382735 to the sum of all integers on its right in the array A. Print the index of the equilibrium position. ,8²2300° 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. 230036 0030 Input Format: The input consists of two lines: 30 3BR 38273 The first line contains an integer denoting N. The second line contains N space-separated integers denoting the elements of the array A. bar 23 cor Input will be read from the STOIN by the candidate Output Format: Print the index of the equilibrium position. If no index is found, print "NOT FOUND" ,00030 Sample Input 5 2 4 7 3 3 Sample Output 3 3827360 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)
   print(result)
RESULT
  5 / 5 Test Cases Passed | 100 %
```