Logo STUDENT REPORT DETAILS HEMANTH KUMARA D **Roll Number** 3BR23CD028 EXPERIMENT Title EQUILIBRIUM  ${\tt Description} {}^{\circ}$ 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. 58230102 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. 50028 3R Input Format: The input consists of two lines: 3002838 The first line contains an integer denoting N. The second line contains N space-separated integers denoting the elements of the array A. 5813CD03 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" CD028 38 Sample Input 5 24733 Sample Output 3 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 %
```