Logo STUDENT REPORT DETAILS **GOWINI VARSHINI** 2 3 2000 Roll Number 3BR23CD024 **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. 8R23CD0 12A 3BR2? 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. , c002A38 Input Format: The input consists of two lines: LA3BR23 The first line contains an integer denoting N. The second line contains N space-separated integers denoting the elements of the array A. 5R23CDO 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" Sample Input 5 24733 Sample Output 3 Source Code: 3BR2

```
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 \%
```