```
def find_equilibrium_index(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"
          import sys
          input = sys.stdin.read
          data = input().splitlines()
          N = int(data[0])
          A = list(map(int, data[1].split()))
                                                                                                           result = find_equilibrium_index(N, A)
          print(result)
RESULT
        5 / 5 Test Cases Passed | 100 %
```