```
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"
   # Example usage
   if __name__ == "__main__":
       import sys
       N = int(sys.stdin.readline().strip())
       A = list(map(int, sys.stdin.readline().strip().split()))
       result = find_equilibrium_index(N, A)
       print(result)
RESULT
 5 / 5 Test Cases Passed | 100 \%
```

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