|                 | <b>□Logo</b>   |             |
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| F               | BR23CS039  EXPERIMENT  Title  EQUILIBRIUM  CENTAL AREA |             |
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| 5               | itle Angerson April 2009 April 20 | 3050        |
| 0               |  |             |
| 93BR13          | Description 3 April 2009 April 20 | 38          |
| 0)              | 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  | 03938       |
| 0               | of all integers on its right in the array A. Print the index of the equilibrium position.  |             |
| k13050          | <b>Note</b> : For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND" without quotes.  | 382235      |
|                 | The array is 1 indexed   | 36,         |
| 3               |  |             |
| 50000 05        | Input Format:  | 3503        |
|                 |  | 13          |
| 93BR12          |  | o o         |
| 3               | The second line contains N space-separated integers denoting the elements of the array A.  | 03938       |
|                 | Input will be read from the STDIN by the candidate   | )           |
| R13050          |  | 2           |
| RIV             | Print the index of the equilibrium position. If no index is found, print "NOT FOUND"   | BRING       |
| <               | Sample Input   |             |
| 5000 of         | 5  | - Og        |
| <u> </u>        | 24733  | 1303        |
| O.              | Position of the control of the contr |             |
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|                 | Source Code: 3C5 No. 3Hth. 3C5 O 30 AH. 3C5  | 2           |

```
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 %
```