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C abc.c >_
1 //Q103: Write a Program to take an array of integers as input, calculate the pivot index of this array.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 nums = [1,7,3,6,5,6]
7 Output 1:
8 3
9
10 Input 2:
11 nums = [1,2,3]
12 Output 2:
13 -1
14
15 Input 3:
16 nums = [2,1,-1]
17 Output 3:
18 0
19
20 */
21
22 #include <stdio.h>
23
24 int main() {
25     int n, i;
26     scanf("%d", &n);
27
28     int nums[100];
29     for(i = 0; i < n; i++)
30         scanf("%d", &nums[i]);
31
32     int total = 0, left_sum = 0;
33     for(i = 0; i < n; i++)
34         total += nums[i];
35
36     for(i = 0; i < n; i++) {
37         total -= nums[i];
38         if(left_sum == total) {
39             printf("%d\n", i);
40             return 0;
41         }
42         left_sum += nums[i];
43     }
44
45     printf("-1\n");
46     return 0;
47 }
48

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PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
6
1 7 3 6 5 6
3
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
3
1 2 3
-1
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
3
2 1 -1
0
PS C:\Users\drago\OneDrive\Desktop\C H.W>

```