☆ Weird Faculty



This semester you are taking a course taught by a faculty member who has a weird way of grading tests. In a test, n questions will be asked, and the correctness of the answers is already determined. For the j^{th} question, the verdict will be v[i] (where $0 \le i < n$). If v[i] = 1, the answer is correct but if v[i] = 0, the answer is wrong.

() 26d 05h

to test end

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1

When a test is given, you have to answer the first k questions (indices 0 to k-1) where $0 \le k < n$, and your friend has to answer the remaining questions (indices k to n-1) on the test. At the end, results are calculated as follows:

4

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6

Choose the minimum k such that Your_result > YourFriend_result.

Function Description

Complete the function *exam* in the editor below. The function must return an integer that denotes the minimum number of questions you must answer to have *Your_result > YourFriend_result*.

exam has the following parameter(s): v[v[0],...v[n-1]]: an array of integers

Constraints

- 1≤n≤10⁵
- $v[i] \in \{0, 1\}$ (where $0 \le i < n$)

Input Format For Custom Testing

Sample Case 0

Sample Input 0

5 1

0

0

1

Sample Output 0

0

Explanation 0

```
n = 5
v = \{1, 0, 0, 1, 0\}
```

If you answer 0 questions (k=0) then $Your_result = 0$ and $YourFriend_result = -1$ (2 correct answers & 3 wrong answers).

Sample Case 1

0

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For help on how to read input and write output in Python 3, click here.

×

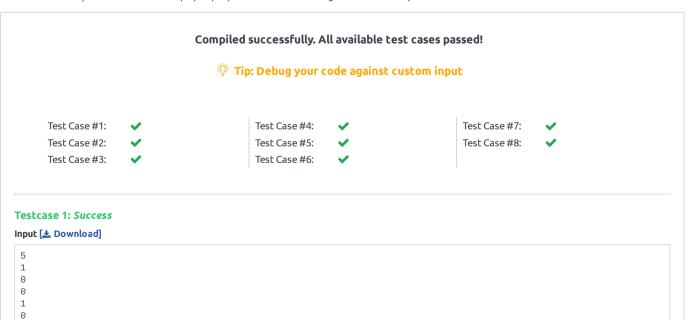
```
Python 3
                                                                         Original Code
                                                                                                                   \Diamond
17
18
     def value(e):
19
         if e == 1:
20
             return 1
21
         else:
             return -1
22
23
24
     def exam(v):
         me = 0
25
26
         my_friend = 0
27
28
         for e in v:
29
             my_friend += value(e)
30
31
         k = 0
         while k < len(v)-1:
32
33
             if (me > my_friend):
                 return k
34
35
36
             me += value(v[k])
             my_friend -= value(v[k])
37
38
             k += 1
39
40
         return k
41
42
                 == '__main__': --
43
          name
                                                                                                      Line: 10 Col: 1
```

Test against custom input

Run Code Submit code & Continue

(You can submit any number of times)

▲ Download sample test cases The input/output files have Unix line endings. Do not use Notepad to edit them on windows.



© 26d 05h to test end	6/6 Attempted	♣ Francesco

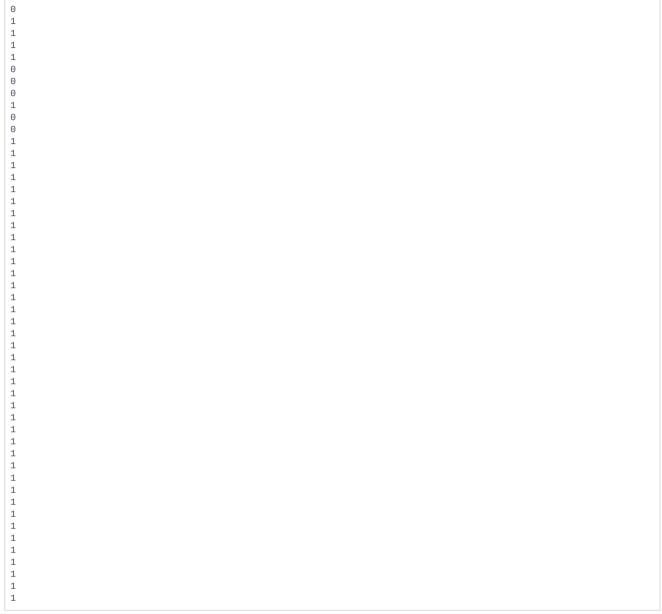
0

2

3

5

6



Your Output

84

Expected Output [Download]

84

Testcase 4: Success

Your Output

Output hidden

Testcase 5: Success

Your Output

Output hidden

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