

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

## F. Eating Candies

time limit per test: 1 second  
memory limit per test: 256 megabytes

There are  $n$  candies put from left to right on a table. The candies are numbered from left to right. The  $i$ -th candy has weight  $w_i$ . Alice and Bob eat candies.

Alice can eat any number of candies from the left (she can't skip candies, she eats them in a row).

Bob can eat any number of candies from the right (he can't skip candies, he eats them in a row).

Of course, if Alice ate a candy, Bob can't eat it (and vice versa).

They want to be fair. Their goal is to eat the same total weight of candies. What is the most number of candies they can eat in total?

### Input

The first line contains an integer  $t$  ( $1 \leq t \leq 10^4$ ) — the number of test cases.

The first line of each test case contains an integer  $n$  ( $1 \leq n \leq 2 \cdot 10^5$ ) — the number of candies on the table.

The second line of each test case contains  $n$  integers  $w_1, w_2, \dots, w_n$  ( $1 \leq w_i \leq 10^4$ ) — the weights of candies from left to right.

It is guaranteed that the sum of  $n$  over all test cases does not exceed  $2 \cdot 10^5$ .

### Output

For each test case, print a single integer — the maximum number of candies Alice and Bob can eat in total while satisfying the condition.

### Example

input	Copy
4 3 10 20 10 6 2 1 4 2 4 1 5 1 2 4 8 16 9 7 3 20 5 15 1 11 8 10	
output	Copy
2 6 0 7	

### Note

For the first test case, Alice will eat one candy from the left and Bob will eat one candy from the right. There is no better way for them to eat the same total amount of weight. The answer is 2 because they eat two candies in total.

For the second test case, Alice will eat the first three candies from the left (with total weight 7) and Bob will eat the first three candies from the right (with total weight 7). They cannot eat more candies since all the candies have been eaten, so the answer is 6 (because they eat six candies in total).

For the third test case, there is no way Alice and Bob will eat the same non-zero weight so the answer is 0.

For the fourth test case, Alice will eat candies with weights [7, 3, 20] and Bob will eat candies with weights [10, 8, 11, 1], they each eat 30 weight. There is no better partition so the answer is 7.

Codeforces Round 784 (Div. 4)

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">230981973</a>	Nov/02/2023 16:45	Accepted
<a href="#">230981506</a>	Nov/02/2023 16:42	Wrong answer on test 2
<a href="#">230900264</a>	Nov/02/2023 03:09	Accepted

→ Problem tags

binary search data structures greedy

two pointers \*1100

No tag edit access

→ Contest materials

Announcement (en)

Tutorial (en)