

**Difficulty:** Secret **Source:** Codeforces **Time Limit:** 1000ms **Memory Limit:** 256MB

## Alice Bob and Chocolate

Alice and Bob like games. And now they are ready to start a new game. They have placed  $n$  chocolate bars in a line. Alice starts to eat chocolate bars one by one from **left to right**, and Bob — from **right to left**.

For each chocolate bar the time, needed for the player to consume it, is known (Alice and Bob eat them with equal speed). When the player consumes a chocolate bar, he immediately starts with another. It is not allowed to eat two chocolate bars at the same time, to leave the bar unfinished and to make pauses.

If both players start to eat the same bar simultaneously, Bob leaves it to Alice as a true gentleman.

How many bars each of the players will consume?

### Input Format

- The first line contains one integer  $n$  ( $1 \leq n \leq 10^5$ ) — the amount of bars on the table.
- The second line contains a sequence  $t^1, t^2, \dots, t^n$  ( $1 \leq t_i \leq 1000$ ), where  $t_i$  is the time (in seconds) needed to consume the  $i$ -th bar (in the order from left to right).

### Output Format

Print two numbers  $a$  and  $b$ , where  $a$  is the amount of bars consumed by Alice, and  $b$  is the amount of bars consumed by Bob.

### Sample test

input	copy
5 2 9 8 2 7	
output	copy
2 3	