Problem - D - Codeforces 20-04-20 10:03





HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR HELP 10 YEARS! 🎁

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## D. Queue

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Little girl Susie went shopping with her mom and she wondered how to improve service quality.

There are n people in the queue. For each person we know time  $t_i$  needed to serve him. A person will be disappointed if the time he waits is more than the time needed to serve him. The time a person waits is the total time when all the people who stand in the queue in front of him are served. Susie thought that if we swap some people in the queue, then we can decrease the number of people who are disappointed.

Help Susie find out what is the maximum number of not disappointed people can be achieved by swapping people in the queue.

#### Input

The first line contains integer n ( $1 \le n \le 10^5$ ).

The next line contains n integers  $t_i$  ( $1 \le t_i \le 10^9$ ), separated by spaces.

#### Output

Print a single number — the maximum number of not disappointed people in the queue.

#### **Examples**

input	Сору
5 15 2 1 5 3	
output	Сору
4	

#### Note

Value 4 is achieved at such an arrangement, for example: 1, 2, 3, 5, 15. Thus, you can make everything feel not disappointed except for the person with time 5.

# Codeforces Round #303 (Div. 2)

### Finished

#### → Practice?

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Register for practice

# ightarrow Virtual participation

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Start virtual contest

# → Problem tags

greedy	implementation	sortings
*1400		
		No tag edit access

### → Contest materials

- Announcement (en)
- Tutorial (en)

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