

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. USB Flash Drives

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Sean is trying to save a large file to a USB flash drive. He has n USB flash drives with capacities equal to a_1, a_2, \dots, a_n megabytes. The file size is equal to m megabytes.

Find the minimum number of USB flash drives needed to write Sean's file, if he can split the file between drives.

Input
The first line contains positive integer n ($1 \leq n \leq 100$) — the number of USB flash drives.
The second line contains positive integer m ($1 \leq m \leq 10^5$) — the size of Sean's file.

Each of the next n lines contains positive integer a_i ($1 \leq a_i \leq 1000$) — the sizes of USB flash drives in megabytes.

It is guaranteed that the answer exists, i. e. the sum of all a_i is not less than m .

Output
Print the minimum number of USB flash drives to write Sean's file, if he can split the file between drives.

Examples

input	Copy
3 5 2 1 3	
output	Copy
2	

input	Copy
3 6 2 3 2	
output	Copy
3	

input	Copy
2 5 5 10	
output	Copy
1	

Educational Codeforces Round 3

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

greedy implementation sortings *800
No tag edit access

→ Contest materials

- Announcement (en) ✕
- Tutorial (en) ✕

Note

In the first example Sean needs only two USB flash drives — the first and the third.

In the second example Sean needs all three USB flash drives.

In the third example Sean needs only one USB flash drive and he can use any available USB flash drive — the first or the second.

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