

Problem 3: Conveyor Belt Sushi

Time Limit: 1s

Memory Limit: 128MB

While wandering Osaka, Alan finds himself in a conveyor belt sushi restaurant. This particular conveyor belt sushi restaurant has a very high tech system in place and tells you that there are N plates of sushi where the i th plate costs C_i dollars. Alan is starving and wants to buy a lot of sushi. However, since he spent all his money on otoro and chutoro, he only has D dollars left. The plates will come in order and if Alan can buy them, he will. As soon as he can't afford a plate, he gets mad and leaves the restaurant. What is the maximum number of plates of sushi he can buy?

Constraints

$$1 \leq N \leq 1\,000$$

$$1 \leq D \leq 100\,000$$

$$1 \leq C_i \leq 10\,000$$

Input Specification

The first line of input will contain the integers N and the second line will contain D . The next N lines will contain C_i , the cost of the i th plate of sushi.

Output Specification

Output a single integer, the maximum number of plates of sushi Alan can buy if he starts at the beginning of the conveyor belt.

Sample Input

```
5
100
10
20
50
60
1
```

Sample Output

```
3
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Explanation

Alan can buy the first 4 plates of sushi, which cost $10 + 20 + 50 = 80$ dollars. Alan does not have enough money to buy the fourth plate of sushi which means he will leave the restaurant. Therefore, the maximum number of plates of sushi Alan can buy is 3.