# Magical Wallet

Input file: standard input
Output file: standard output

Time limit: 2 seconds

Memory limit: 1024 megabytes

You have a magical wallet with X yen in it. (Yen is the currency of Japan.)

Using the magic on this wallet, you can rearrange the amount of money in the wallet as a decimal string in any order you like. For example, if you have a magical wallet with 120 yen, you can use magic to change the amount of money in the wallet to any of the following: 12 yen, 21 yen, 102 yen, 120 yen, 201 yen, or 210 yen (leading zeros are ignored).

You will now visit N shops with the magical wallet in order. At the i-th shop  $(1 \le i \le N)$ , a product costing  $A_i$  yen is sold, and if the magical wallet contains at least  $A_i$  yen, you can pay  $A_i$  yen from the magical wallet to buy the product.

You can use magic as much as you like whenever you want. How many products can you buy at most?

#### Input

The input is given from Standard Input in the following format:

$$\begin{array}{c}
N X \\
A_1 A_2 \cdots A_N
\end{array}$$

- All values in the input are integers.
- 1 < N < 100
- $1 < X < 10^4$
- $1 \le A_i < 10^4 \ (1 \le i \le N)$

## Output

Print the answer.

## **Examples**

standard input	standard output
2 120	2
142 90	
1 119	1
911	
5 1000	3
900 90 900 9 900	
7 1171	5
6328 2419 8302 7503 1744 8495 1522	

#### Note

In the first sample, you can buy two products by doing the following:

- 1. Use magic to change the amount of money in the wallet from 120 yen to 201 yen.
- 2. Buy a product for 142 year at the first shop. The amount of money in the wallet becomes 201 142 = 59 year.

3.	Use magic to change the amount of money in the wallet from 59 yen to 95 yen.	
4.	Buy a product for 90 year at the second shop. The amount of money in the wallet becomes $95-90=5$ year.	