## 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 $(1 \leq i \leq N)$, 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:

| $N X$ |  |  |  |
| :--- | :--- | :--- | :--- |
| $A_{1}$ | $A_{2}$ | $\cdots$ | $A_{N}$ |

- All values in the input are integers.
- $1 \leq N \leq 100$
- $1 \leq X<10^{4}$
- $1 \leq A_{i}<10^{4}(1 \leq i \leq N)$


## Output

Print the answer.

## Examples

| standard input | standard output |
| :---: | :---: |
| $\begin{aligned} & 2120 \\ & 14290 \end{aligned}$ | 2 |
| $\begin{aligned} & 1119 \\ & 911 \end{aligned}$ | 1 |
| $\begin{aligned} & 51000 \\ & 900909009900 \end{aligned}$ | 3 |
| ```l}\begin{array}{lllllll}{71171}\\{6328}&{2419}&{8302}&{7503}&{1744}&{8495}&{1522}``` | 5 |

## 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 yen at the first shop. The amount of money in the wallet becomes $201-142=59$ yen .
3. Use magic to change the amount of money in the wallet from 59 yen to 95 yen.
4. Buy a product for 90 yen at the second shop. The amount of money in the wallet becomes $95-90=5$ yen.
