

Problem F: Fragmented Furniture

Karl wants to invite his friends over for a party. However, he doesn't have a lot of chairs, and he wants to make sure that nobody will have to stand, including himself. So he tells each friend to bring as many chairs as they can. With that help, what's the maximum number of friends he can invite to his home?



Input

The input consists of:

- One line with two integers n and k ($1 \leq n, k \leq 100$), the number of friends and the number of chairs Karl has, respectively.
- One line with n integers c_1, \dots, c_n ($0 \leq c_i \leq 100$ for each i), the number of chairs each friend can bring.

Output

Output the maximum number of friends that Karl can invite over, assuming each invitee comes and brings as many chairs as they can.

Sample Input 1

```
6 2
1 0 0 2 1 0
```

Sample Output 1

```
5
```

Sample Input 2

```
3 7
100 100 100
```

Sample Output 2

```
3
```

Sample Input 3

```
1 1
0
```

Sample Output 3

```
0
```

Did you know that ... ?



... social interaction has been scientifically proven to increase brain power? Research has shown that by interacting with others, we actually train our brains. Social motivation and social contact can help to improve memory formation and recall, and protects the brain from neurodegenerative diseases.

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