

Problem D: Packing Appa

Team Avatar is preparing to leave the Northern Water Tribe. Sokka is in charge of packing Appa, the flying bison, with essential supplies. Appa is incredibly strong, but he has a strict maximum weight limit for taking off safely.

Sokka has laid out a variety of items (tents, water skins, sleeping bags, boomerang polish, etc.) and wants to pack as many *individual items* as possible so the team feels well-prepared, regardless of what the items actually are.

Write a program to determine the maximum number of items Sokka can load onto Appa without exceeding the bison's weight limit.



Input

The first line of input contains two space-separated integers: W , Appa's maximum weight limit, and I , the total number of items Sokka has laid out. The second line contains I space-separated integers, representing the weight of each individual item.

Output

You should output a single integer giving the maximum number of items that can be packed onto Appa.

Sample Input 1

```
50 7
15 5 25 10 12 8 20
```

Sample Output 1

```
5
```

Sample Input 2

```
10 3
15 20 12
```

Sample Output 2

```
0
```