Problem 1: Lunchbox

(Easy)

(Adapted from Singapore's National Olympiad in Informatics 2016, Task 1)

You are the manager of a restaurant. You prepare N lunch boxes and hope to distribute them to some schools. Suppose there are m schools and assume the ith school asks for k_i lunch boxes.

You aim to distribute the lunchboxes to as many schools as possible. Moreover, you have a rule. For the ith school, you give either zero or k_i lunch boxes. Can you make a program that helps you to find the maximum number of schools that can receive lunch boxes?

Input Format

Your program must read from standard input. The first line contains 2 integers, N and m . Then, it follows by m lines. The ith line contains an integer k_i.

Constraints

- $1 \leq N, m \leq 60000$
- $1 \leq k_i \leq 30000$

The time limit for this problem is 1 second.

Output Format

Your program must output one line with a single integer to the standard output, which is the maximum number of schools.

Sample Input

```
10 4
3
9
4
2
```

Sample Output

```
3
```

Explanation

In this example, the answer is 3 since $3 + 4 + 2 \leq 10$ and $3 + 9 + 4 + 2 > 10$.