Task 1: `LunchBox`

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 lunch boxes 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 help you to find the maximum number of schools that can receive lunch boxes?

Input

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.

Output

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

Sample Testcase

Consider the following input:

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

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

```
3
```

Subtasks

The maximum execution time on each instance is 0.5s. Your program will be tested on sets of input instances that satisfies the following restrictions:

Subtask	Marks	Restrictions
1	20	Each instance satisfies $m = 1$, $0 < N \leq 60\,000$ and $0 < k_i \leq 30\,000$
2	30	Each instance satisfies $0 < m \leq 1\,000$, $0 < N \leq 60\,000$ and $0 < k_i \leq 1\,000$
3	50	Each instance satisfies $0 < N, m \leq 60\,000$ and $0 < k_i \leq 30\,000$