Exam Rush

Your final exam is approaching and you haven't begun to study. In order to have the best chance of passing the course, you resolve to study from now until exam time. Chapters vary in length, but not in value towards a passing grade, so you want to study as many complete chapters as possible. The order that you study chapters doesn't matter, but studying part of a chapter won't help.

Your task is to maximize the number of complete chapters you can study between now and exam time.

Input Format

The first line contains an integer number, n and an integer number, t. Then there are n lines, each containing the time, tm_i in hours required to study that chapter.

Constraints

- $1 \leq n, tm \leq 10^5$
- $1 \leq t \leq 10^9$

Output Format

Print an integer number, which is the maximum number of chapters that can be studied completely before the start of the final examination.

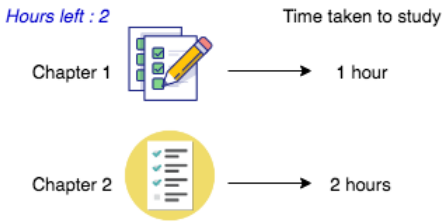
Sample Input 0

```
2 2
1
2
```

Sample Output 0

```
1
```

Explanation 0



In this situation, you can either study chapter 1 or chapter 2 completely, but not both.