Drought

Years of drought have hit rural Australia hard. With catchment levels at an all time low, you decide to purchase a rainwater tank. Soon the winter rains arrive, and the tank slowly begins to fill.

You begin to wonder just when your tank will be entirely full. A friend in the weather bureau has kindly lent you rainfall predictions for the next few days. Given these predictions, and the size of your rainwater tank, write a program to determine how many days your tank takes to fill.

Input

The first line of the input will be of the form n c, where n is the number of days the weather predictions last, and c is the capacity of your rainwater tank in litres. You are guaranteed that $1 \leq n \leq 1000$, and that c is a positive integer no greater than the total amount of rain that falls over the n days.

The remaining n lines of input will describe the rainfall levels for each day in order. Each line will contain a single integer between 0 and 1 000 000: the amount of rain (in litres) that will fall over your rainwater tank that day.

Output

Your output should consist of a single integer: the number of days until your rainwater tank fills.

Sample Input 1

```
6 10
2
3
3
2
2
4
```

Sample Output 1

```
4
```

Sample Input 2

```
6 11
2
3
3
2
2
4
```

Sample Output 2

```
5
```

Explanation

In both examples, the total rainfall changes as follows:

Day	Running Total (in litres)
1	2
2	5
3	8
4	10
5	12
6	16

Hence a 10-litre water tank is full after 4 days and an 11-litre water tank is full after 5 days.