### 473 Raucous Rockers

You just inherited the rights to n previously unreleased songs recorded by the popular group Raucous Rockers. You plan to release a set of m compact disks with a selection of these songs. Each disk can hold a maximum of t minutes of music, and a song can not overlap from one disk to another. Since you are a classical music fan and have no way to judge the artistic merits of these songs, you decide on the following criteria for making the selection:

- 1. The songs will be recorded on the set of disks in the order of the dates they were written.
- 2. The total number of songs included will be maximized.

# Input

The input consists of one line containing the values of n, t and m (integer numbers) followed by a line containing a list of the length of n songs,  $t_1, t_2, ..., t_n$  ordered by the date they were written (Each  $t_i$  is less than t minutes long and  $\sum_{i=1}^{n} t_i > m \times t$ .)

#### Output

The output, consists of one integer indicating the number of songs that, following the above selection criteria will fit on m disks.

## Sample Input

```
10 5 3
3, 5, 1, 2, 3, 5, 4, 1, 1, 5
```

## Sample Output

6