

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 several datasets. The first line of the input indicates the number of datasets, then there is a blank line and the datasets separated by a blank line.

Each dataset 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,  $t_1, t_2, \dots, t_n$  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

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

Print a blank line between consecutive datasets.

## Sample Input

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

## Sample Output

```
6
1
```