## Raucous Rockers

You just inherited the rights to $N(1<=N<=20)$ previously unreleased songs recorded by the popular group Raucous Rockers. You plan to release a set of $M(1<=M<=20)$ compact disks with a selection of these songs. Each disk can hold a maximum of $\mathrm{T}(1<=\mathrm{T}<=20)$ 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:

- The songs on the set of disks must appear in the order of the dates that they were written.
- The total number of songs included will be maximized.


## PROGRAM NAME: rockers

## INPUT FORMAT

Line 1: Three integers: $\mathrm{N}, \mathrm{T}$, and M .
Line 2: N integers that are the lengths of the songs ordered by the date they were written.

## SAMPLE INPUT (file rockers.in)

452
4342

## OUTPUT FORMAT

A single line with an integer that is the number of songs that will fit on M disks.

## SAMPLE OUTPUT (file rockers.out)

