A. Segment with Small Sum

time limit per test: 1 second

memory limit per test: 1024 megabytes

Given an array of n integers a_i. Let's say that the segment of this array $a[l..r]$ $(1 \le l \le r \le n)$ is good if the sum of elements on this segment is at most s. Your task is to find the longest good segment.

Input

The first line contains integers n and s ($1 \le n \le 10^5$, $1 \le s \le 10^{18}$). The second line contains integers a_i ($1 \le a_i \le 10^9$).

Output

Print one integer, the length of the longest good segment. If there are no such segments, print 0.

Example

input	Copy
7 20 2 6 4 3 6 8 9	

output	Copy
4	