Subarray Sum

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

You are given an array a of n positive integers and integer m.

And you asked to find the maximum subarray sum less than or equal to m.

Note : empty subarray has sum equals 0.

Input

First line contains n, m – $(1 \leq n \leq 10^5)$, $(1 \leq m \leq 10^9)$– number of array elements and target sum.

Second line contains n integers $a_1, \cdots, a_n$ –$(1 \leq a_i \leq 10^9)$.

Output

Output the maximum subarray sum less than or equal to m.

Example

standard input	standard output
7 8 1 5 6 1 1 2 3	8

Note

The subarray $6, 1, 1$ has a maximum subarray sum less than or equal 8.