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B. Splitting an Array

time limit per test: 1 second
memory limit per test: 256 megabytes input: standard input output: standard output

Given an array of n positive integers. Your task is to divide it into k segments so that the maximum sum on the segment is the minimum possible.

Input

The first line contains integers n and k ($1 \le k \le n \le 10^5$). The second line contains the elements of the array a_i ($1 \le a_i \le 10^9$).

Output

Print one number, the minimum possible maximum sum on the segment.

Example

input	Сору
10 4 1 3 2 4 10 8 4 2 5 3	
output	Сору
12	

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The only programming contests Web 2.0 platform
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