Problem A
Lantern
Time Limit: 1 second

Mid-Autumn Festival is coming. Kids always love to play with lanterns. Therefore, you decide to make many lanterns to donate for young children.

There are M different types of lanterns and you know the number of lanterns of each type to be made.

You have N robots that can help you make lanterns automatically and you can only assign a robot to make a single type of lanterns. In fact, you are not required to use all N robots to make lanterns.

To quickly have all lanterns ready for young kids, you should minimize the maximum number of lanterns a robot should make.

Input

The first line of input contains two integers N ($1 \le N \le 10^9$) and M ($1 \le M \le 10^5$). The next M lines each contains a single positive integer in range from 1 to 10^9, which is the number of lanterns of the i^{th} type that you want to make.

Output

Display a single positive integer that is the minimum value of the maximum number of lanterns that a robot makes.

Sample Input	Sample Output
5 2 7 4	3