

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Equalize Prices Again

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

You are both a shop keeper and a shop assistant at a small nearby shop. You have n goods, the i -th good costs a_i coins.

You got tired of remembering the price of each product when customers ask for it, thus you decided to simplify your life. More precisely you decided to set the same price for all n goods you have.

However, you don't want to lose any money so you want to choose the price in such a way that the sum of new prices is not less than the sum of the initial prices. It means that if you sell all n goods for the new price, you will receive at least the same (or greater) amount of money as if you sell them for their initial prices.

On the other hand, you don't want to lose customers because of big prices so among all prices you can choose you need to choose the minimum one.

So you need to find the minimum possible equal price of all n goods so if you sell them for this price, you will receive at least the same (or greater) amount of money as if you sell them for their initial prices.

You have to answer q independent queries.

Input

The first line of the input contains one integer q ($1 \leq q \leq 100$) — the number of queries. Then q queries follow.

The first line of the query contains one integer n ($1 \leq n \leq 100$) — the number of goods. The second line of the query contains n integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq 10^7$), where a_i is the price of the i -th good.

Output

For each query, print the answer for it — the minimum possible equal price of all n goods so if you sell them for this price, you will receive at least the same (or greater) amount of money as if you sell them for their initial prices.

Example

input	Copy
3 5 1 2 3 4 5 3 1 2 2 4 1 1 1 1	
output	Copy
3 2 1	

Codeforces Round #590 (Div. 3)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

math *900

No tag edit access

→ Contest materials

Announcement #1 (en)

Announcement #2 (ru)

Tutorial #1 (en)

Tutorial #2 (ru)