



Level of addiction

- Time limit: 1 second
- Memory limit: 256 MB

As his name implies, Mr. Khoshqalb thinks of everyone; Even thinking about addicts. That's why he invited all the addicts all over the country to come to him so that he can think about their situation.

The first addict went to Mr. Khoshqalb today. Mr. Khoshqalb must first determine the "level of addiction" of this person. For this, a test was taken from the addicted person. Mr. Khoshqalb put a lot of objects on the table and told the addict to count the same objects and write on a piece of paper how many of each object are on the table. Mr. Khoshqalb determines the addiction level of people in a natural numerical way and we know that an addict with an addiction level k , any object on the table k sees the load (So for each existing object, write a number on the paper k is equal to the real number.)

Now Mr. Khoshqalb has gone to his home and while watching the exciting Olympic games, he wants to get the level of addiction. But suddenly he realizes that he doesn't remember how many of each object was on the table! He hurriedly goes to his bag and takes out the paper of the addict's writings. With all his kindness, he wants to know at least how many objects were on the table in order to pay the least amount of money to the person responsible for arranging the objects on the table! (He is also a bit stingy)

Now the good hearted person comes to you and by giving you the numbers written on the addicted paper, he asks you to say the lowest possible value for the number of objects on the table.

Input

In the input line a number n . It is said that it represents the number of numbers on the paper. (which is equal to the number of different objects on the table.)

Then in the second line of the input n The numbers are separated by spaces and represent the numbers written on the paper.

$$1 \leq n \leq 1000000$$

Numbers on smaller paper are equal 1 0 0 0 0 0 0 0 0 are.

Output

The output should contain a number equal to the smallest possible number of objects on the table.

Example

Sample input 1

```
3
5 5 10
```



Questions

100

Level of addiction

100

Difficult cooperation

125

gathering of elders

150

Security issue

250

Great typist

500

Text machine

All submissions

Final submissions

Scoreboard

Sample output 1

4

If the addiction level of the addict is equal to 5, it can be said that there were 4 objects on the table, 2 of which were the same shape.

Sample input 2

3
1 2 3

Sample output 2

6

Because the addict saw only one seed from one of the objects, his addiction level can only be 1, so all the objects mentioned by the addict are available on the table; Three types of objects, one seed from the first type, 2 from the second type, and 3 from the third type.

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