
Control C501C

P88087_en

Your task is to write a program that reads a sequence of words and prints them in alphabetical order.

Input

The input starts with a natural number n and continues with the n words that your program must sort. All the words are formed exclusively by lowercase letters.

Output

The output is a line with the n words of the input in alphabetical order, separated by a comma.

Observation

You must use the algorithm *insertion sort* to solve this problem. Any other method will be qualified with a zero

Sample input 1

```
3 helen george john
```

Sample output 1

```
george,helen,john
```

Sample input 2

```
11
a bird in the hand is
worth two in the bush
```

Sample output 2

```
a,bird,bush,hand,in,in,is,the,the,two,worth
```

Sample input 3

```
7 a az b b bz z za
```

Sample output 3

```
a,az,b,b,bz,z,za
```

Sample input 4

```
0
```

Sample output 4

Sample input 5

```
1 hello
```

Sample output 5

```
hello
```

Problem information

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