

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

### C. Page Numbers

time limit per test: 2 seconds  
memory limit per test: 256 megabytes

«Bersoft» company is working on a new version of its most popular text editor — Bord 2010. Bord, like many other text editors, should be able to print out multipage documents. A user keys a sequence of the document page numbers that he wants to print out (separates them with a comma, without spaces).

Your task is to write a part of the program, responsible for «standardization» of this sequence. Your program gets the sequence, keyed by the user, as input. The program should output this sequence in format  $l_1-r_1, l_2-r_2, \dots, l_k-r_k$ , where  $r_i + 1 < l_{i+1}$  for all  $i$  from 1 to  $k - 1$ , and  $l_i \leq r_i$ . The new sequence should contain all the page numbers, keyed by the user, and nothing else. If some page number appears in the input sequence several times, its appearances, starting from the second one, should be ignored. If for some element  $i$  from the new sequence  $l_i = r_i$ , this element should be output as  $l_i$ , and not as « $l_i - l_i$ ».

For example, sequence 1, 2, 3, 1, 1, 2, 6, 6, 2 should be output as 1-3, 6.

#### Input

The only line contains the sequence, keyed by the user. The sequence contains at least one and at most 100 positive integer numbers. It's guaranteed, that this sequence consists of positive integer numbers, not exceeding 1000, separated with a comma, doesn't contain any other characters, apart from digits and commas, can't end with a comma, and the numbers don't contain leading zeroes. Also it doesn't start with a comma or contain more than one comma in a row.

#### Output

Output the sequence in the required format.

#### Examples

input	Copy
1,2,3,1,1,2,6,6,2	
output	Copy
1-3,6	

input	Copy
3,2,1	
output	Copy
1-3	

input	Copy
30,20,10	
output	Copy
10,20,30	

#### → Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

Codeforces Beta Round 34 (Div. 2)

Finished

Practice

→ 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">249574490</a>	Mar/04/2024 13:33	Accepted
<a href="#">249574338</a>	Mar/04/2024 13:31	Wrong answer on test 4
<a href="#">249574229</a>	Mar/04/2024 13:31	Wrong answer on test 4
<a href="#">249561382</a>	Mar/04/2024 11:30	Time limit exceeded on test 1

→ Problem tags

expression parsingimplementation

sortingsstrings\*1300

No tag edit access