CODEFORCES
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| EN RU
Mr.Yassin | Logout

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PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   HACKS   ROOM   STANDINGS   CUSTOM INVOCATION

F. Restoring the Expression

time limit per test: 2 seconds

memory limit per test: 256 megabytes

A correct expression of the form $a+b=c$ was written; a, b and c are non-negative integers without leading zeros. In this expression, the plus and equally signs were lost. The task is to restore the expression. In other words, one character '+' and one character '=' should be inserted into given sequence of digits so that:

- character'+' is placed on the left of character '=',
- characters '+' and '=' split the sequence into three non-empty subsequences consisting of digits (let's call the left part a, the middle part — b and the right part — c),
- all the three parts a, b and c do not contain leading zeros,
- it is true that $a+b=c$.

It is guaranteed that in given tests answer always exists.

Input

The first line contains a non-empty string consisting of digits. The length of the string does not exceed 10^6.

Output

Output the restored expression. If there are several solutions, you can print any of them.

Note that the answer **at first** should contain two terms (divided with symbol '+'), and then the result of their addition, before which symbol'=' should be.

Do not separate numbers and operation signs with spaces. Strictly follow the output format given in the examples.

If you remove symbol '+' and symbol '=' from answer string you should get a string, **same as** string from the input data.

Examples

input	Copy
12345168	

output	Copy
123+45=168	

input	Copy
099	

output	Copy
0+9=9	

input	Copy
199100	

output	Copy
1+99=100	

input	Copy
123123123456456456579579579	

output	Copy
123123123+456456456=579579579	

Codeforces Round 451 (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
283683396	Sep/30/2024 01:52	Accepted
283683335	Sep/30/2024 01:50	Accepted
283683190	Sep/30/2024 01:47	Wrong answer on test 3
283680211	Sep/30/2024 00:43	Wrong answer on test 4
283677002	Sep/29/2024 23:55	Accepted
283676913	Sep/29/2024 23:54	Compilation error
283673518	Sep/29/2024 23:13	Time limit exceeded on test 14

→ Problem tags

brute force   hashing   math   *2300

No tag edit access

→ Contest materials

- Announcement ✕
- Tutorial (en) ✕