PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Helpful Maths

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Xenia the beginner mathematician is a third year student at elementary school. She is now learning the addition operation.

The teacher has written down the sum of multiple numbers. Pupils should calculate the sum. To make the calculation easier, the sum only contains numbers 1, 2 and 3. Still, that isn't enough for Xenia. She is only beginning to count, so she can calculate a sum only if the summands follow in non-decreasing order. For example, she can't calculate sum 1+3+2+1 but she can calculate sums 1+1+2 and 3+3.

You've got the sum that was written on the board. Rearrange the summans and print the sum in such a way that Xenia can calculate the sum.

Input

The first line contains a non-empty string S — the sum Xenia needs to count. String S contains no spaces. It only contains digits and characters "+". Besides, string S is a correct sum of numbers 1, 2 and 3. String S is at most 100 characters long.

Output

Print the new sum that Xenia can count.

Examples

input
3+2+1
output
1+2+3

input
1+1+3+1+3
output
1+1+1+3+3

input
2
output
2

→ Attention

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, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

Codeforces Round #197 (Div. 2)
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 ACM-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

[greedy] [implementation] [sortings] [strings]
No tag edit access

→ Contest materials

- Announcement ✕
- Tutorial ✕