

B. Anton and currency you all know

time limit per test: 0.5 seconds
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Berland, 2016. The exchange rate of *currency you all know* against the burle has increased so much that to simplify the calculations, its fractional part was neglected and the exchange rate is now assumed to be an integer.

Reliable sources have informed the financier Anton of some information about the exchange rate of *currency you all know* against the burle for tomorrow. Now Anton knows that tomorrow the exchange rate will be an even number, which can be obtained from the present rate by swapping exactly two distinct digits in it. Of all the possible values that meet these conditions, the exchange rate for tomorrow will be the maximum possible. It is guaranteed that today the exchange rate is an *odd* positive integer n . Help Anton to determine the exchange rate of *currency you all know* for tomorrow!

Input

The first line contains an odd positive integer n — the exchange rate of *currency you all know* for today. The length of number n 's representation is within range from 2 to 10^5 , inclusive. The representation of n doesn't contain any leading zeroes.

Output

If the information about tomorrow's exchange rate is inconsistent, that is, there is no integer that meets the condition, print -1 .

Otherwise, print the exchange rate of *currency you all know* against the burle for tomorrow. This should be the maximum possible number of those that are even and that are obtained from today's exchange rate by swapping exactly two digits. Exchange rate representation should not contain leading zeroes.

Examples

input
527
output
572
input
4573
output
3574
input
1357997531
output
-1

Codeforces Round #288 (Div. 2)

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

greedy

No tag edit access

→ Contest materials

- Announcement 
- Tutorial 