# Problem F. Form processing

| | |
|---|---|
| Input file: | *standard input* or input.txt |
| Output file: | *standard output* or output.txt |
| Time limit: | 1 second |
| Memory limit: | 512 mebibytes |

The IT department of Rosatom is now working on the unified platform for the domains of the various organizations. An important part of this platform is collecting and evaluating the client's view of the domain structure, interface, etc.

One of possible ways to collect this information is providing a special form that shall be filled by the client. To process the answers, the analysts of Rosatom develop special formula for each case.

The formula looks like

$$?s_1?s_2\ldots?s_n?$$

where $s_i$ is one of operators '+', '-', '*' and '/'. In other words, the formula can be represented as the string of odd length $2n+1$, where the '?' characters are placed on the positions with even indices $(0, 2, 4\ldots 2n)$, and operator signs are placed on the positions with odd indices $(1, 3\ldots 2n-1)$.

When processing the form with client's answer, each "?" is replaced by the client's answer — the digit between 1 and 9, inclusively.

When all "?" are replaced with the digits, the formula is evaluated using **rational arithmetics** (i.e. 2/6 = 1/3, and not 0 unlike the integer division in the contemporary programming languages nor 0.333...3 with a rounding error like the double division in those languages) and usual order of evaluation (i.e. the '*' and '/' have higher priority than '+' and '-').

When the value the formula evaluates to is **integer** (i.e. with zero fractional part), the client's answers are considered as consistent ones. The resulting integer is, in this case, the project value. Otherwise (if the fractional part is not zero) the answers are considered inconsistent, thus additional work with the client is needed and the project value is currently undefined.

You are assigned to write the part of the test suite, that, given the input formula, finds one possible sequence of "?" values that produces the maximal possible project value.

## Input

The input contains one string of an odd length, consisting of the characters '?', '-', '+', '*' and '/'. The even positions (considering that the positions are enumerated from zero) are used for '?', while the odd positions are filled with the operation signs. The length of the string does not exceed $2 \cdot 10^4 + 1$.

## Output

Print the string of the same length, where the ?'s are replaced with the digits from 1 to 9, such that the value of expression is integer and maximal possible.

If there are several possible solutions, print any of them.

## Examples

| *standard input* or input.txt | *standard output* or output.txt |
|---|---|
| ?*?+?/?-? | 9*9+9/1-1 |
| ? | 9 |