E. Vanya and Brackets

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Vanya is doing his maths homework. He has an expression of form , where $x_1, x_2, ..., x_n$ are digits from 1 to 9, and sign represents either a plus '+' or the multiplication sign `'*'`. Vanya needs to add **one** pair of brackets in this expression so that to maximize the value of the resulting expression.

Input

The first line contains expression s ($1 \le |s| \le 5001$, $|s|$ is odd), its odd positions only contain digits from 1 to 9, and even positions only contain signs $+$ and $*$.

The number of signs $*$ doesn't exceed 15.

Output

In the first line print the maximum possible value of an expression.

Examples

input
3+5*7+8*4
output
303

input
2+3*5
output
25

input
3*4*5
output
60

Note

Note to the first sample test. $3 + 5 * (7 + 8) * 4 = 303$.

Note to the second sample test. $(2 + 3) * 5 = 25$.

Note to the third sample test. $(3 * 4) * 5 = 60$ (also many other variants are valid, for instance, $(3) * 4 * 5 = 60$).