A. Comparing Two Long Integers

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

You are given two very long integers a, b (leading zeroes are allowed). You should check what number a or b is greater or determine that they are equal.

The input size is very large so don't use the reading of symbols one by one. Instead of that use the reading of a whole line or token.

As input/output can reach huge size it is recommended to use fast input/output methods: for example, prefer to use `scanf/printf` instead of `cin/cout` in C++, prefer to use `BufferedReader/PrintWriter` instead of `Scanner/System.out` in `Java`. Don't use the function `input()` in `Python2` instead of it use the function `raw_input()`.

Input

The first line contains a non-negative integer a.

The second line contains a non-negative integer b.

The numbers a, b may contain leading zeroes. Each of them contains no more than 10^6 digits.

Output

Print the symbol "<" if $a < b$ and the symbol ">" if $a > b$. If the numbers are equal print the symbol "=".

Examples

input
9 10
output
<

input
11 10
output
>

input
00012345 12345
output
=

input
0123 9
output
>

input
0123 111
output
>