Problem C. Comparing Large Numbers

It is very easy to compare two positive integers. For example, if $x = 123$ and $y = 456$, we know that x is smaller than y, just by inspection.

However, if numbers are quite big, such as $p = 189231298728971743539487184712848192193853279414$ and $q = 18923129872897174353948618471284819219385327941 4$, it takes some time to find that p is larger than q.

Given two positive integers a and b, compare a and b and determine whether they are equal, or one is larger than the another.

Input

The input consists of an arbitrary number of records, but no more than 20. Each record is a line containing two positive integers a and b ($1 \leq a \leq 10^{100}$, $1 \leq b \leq 10^{100}$), seperated by a space. Neither a nor b begins with a '0'.

The end of input is indicated by a line containing only the value -1.

Output

For each record, output "=" (without quotes) if $a = b$, "<" (without quotes) if $a < b$, and ">" (without quotes) if $a > b$.

Example

standard input	standard output
1 5 24 1 1357 2468 99999 99999 18923298728971353 18920298728971353 -1	< > < = >

Time Limit

1 second.