

# Compare two numbers

Enter two integers then compare their values.

## Input

The first line of the input consist of a single integer number  $t$  which determines the number of tests.

In each of next  $t$  lines there are two number  $m$  and  $n$  that are separated by a space character.

## Constraints

- $0 < t \leq 1\,000$
- $-1\,000\,000 \leq n, m \leq 1\,000\,000$

## Output

For each test case print out the result in format " $\langle n \rangle$  is greater than  $\langle m \rangle$ " or " $\langle n \rangle$  is smaller than  $\langle m \rangle$ " or " $n$  is equal  $m$ :  $\langle n \rangle$ ". Separate your answers with a new line character.

## Example

### Input:

```
5
9 2
-3 -5
5 28
0 0
19 13
```

### Output:

```
9 is greater than 2
-3 is greater than -5
5 is smaller than 28
n is equal m: 0
19 is greater than 13
```