Intervals (2)   P56559_en

Write a program that, given two intervals, tells if one is inside the other.

Input

Input consists of four integer numbers a_1, b_1, a_2, b_2 that represent the intervals $[a_1, b_1]$ and $[a_2, b_2]$. Assume $a_1 \leq b_1$ and $a_2 \leq b_2$.

Output

Print '=' if the intervals are equal, '1' if the first is inside the second (but they are not equal), '2' if the second is inside the first (but they are not equal), or '?' otherwise.

Sample input 1

```
20 30   10 40
```

Sample output 1

```
1
```

Sample input 2

```
10 20   10 20
```

Sample output 2

```
=
```

Sample input 3

```
20 30   10 20
```

Sample output 3

```
?
```

Sample input 4

```
10 20   30 40
```

Sample output 4

```
?
```

Problem information

Author: Salvador Roura
Translator: Carlos Molina

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