Bigger, smaller or equal

Given two integers **a** and **b** you have to determine, whether **a** is bigger than **b**, smaller than **b** or they are equal. The trick is that you have to solve this problem in Brainfuck.

Input

Two integers **a** and **b** ($0 \le a, b \le 9$). They are separated with a space and followed by an endline.

Output

Exactly one number:

- 0 - if $a = b$
- 1 - if $a > b$
- 2 - if $a < b$

Example

Input:
2 3

Output:
2