## Bigger, smaller or equal

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

## Input

Two integers $\mathbf{a}$ and $\mathbf{b}(0 \leq a, b \leq 9)$. They are separated with a space and followed by an endline.

## Output

Exactly one number:

- 0 - if $\mathrm{a}=\mathrm{b}$
- 1 - if $a>b$
- 2 - if $a<b$


## Example

Input:
23

Output:
2

