**Crooked Digits**

The crooked digit of a given number N is calculated using the number's digits in a very weird and bendy algorithm. The algorithm takes the following steps:

1. Sums the digits of the number **N** and stores the result back in N.
2. If the obtained result is bigger than **9**, step **1**. is repeated, otherwise the algorithm finishes.

The last obtained value of **N** is the result, calculated by the algorithm.

**Input**

* The input data should be read from the console.
* The only line in the input contains a number N, which can be an integer or real number (decimal fraction), positive or negative.
* The input data will always be valid and in the format described. There is no need to check it explicitly.

**Output**

* The output data should be printed on the console.
* You must print the calculated crooked digit of the number N on the first and only line of the output.

**Constraints**

* The number N will have no more than 300 **digits** before and after the decimal point.
* The decimal separator will always be the "." symbol.

**Sample tests**

**Input**

3

**Output**

3

**Input**

-7231

**Output**

4

**Input**

1020340567.89

**Output**

9