Telerik Academy

Telerik Academy Alpha 2017-2018 - JS Entry Exam

Task 1 - Weird bits

The weird 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

- Input will consist of an array with **single element**
- The only element of the array contains a number N, which can be integer or real number (decimal fraction), positive or negative.
- *The input will always be valid and in the described format. There is no need to validate it explicitly.*

Output

- The output data should be printed on the console.
- You must print the calculated weird 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.

Submit in BGCoder.com

- You should submit a function wrapping your solution

```
function solve(args){
  // args is the input in the form of an array provided by BGCoder
  // your code goes here
}
```

Examples

Input	Output
5	5

Input	Output
-4321	1

Input	Output
102000034000567.00000800000900	9