KATA: Reducto multiplicitum

Create a function that takes numbers as arguments, adds them together, and returns the product of digits until the answer is only 1 digit long.

Example

SumDigProd(16, 28) ➞ 6

16 + 28 = 44

4 \* 4 = 16

1 \* 6 = 6

Notes

The input of the function is at least one number but can be any amount of numbers (Params).

Tests

Assert.Equals(0, Reducer.sumDigProd(0));

Assert.Equals(9, Reducer.sumDigProd(9));

Assert.Equals(7, Reducer.sumDigProd(9, 8));

Assert.Equals(6, Reducer.sumDigProd(16, 28));

Assert.Equals(1, Reducer.sumDigProd(111111111));

Assert.Equals(2, Reducer.sumDigProd(1, 2, 3, 4, 5, 6));

Assert.Equals(6, Reducer.sumDigProd(8, 16, 89, 3));

Assert.Equals(6, Reducer.sumDigProd(26, 497, 62, 841));

Assert.Equals(6, Reducer.sumDigProd(17737, 98723, 2));

Assert.Equals(8, Reducer.sumDigProd(123, -99));

Assert.Equals(8, Reducer.sumDigProd(167, 167, 167, 167, 167, 3));

Assert.Equals(2, Reducer.sumDigProd(98526, 54, 863, 156489, 45, 6156));