**Kata – String Calculator**

* Create a simple String calculator with a method **int add(string numbers)**
  + The method can take 0, 1 or 2 numbers, and will return their sum (for an empty string it will return 0) for example**“” or “1” or “1,2”**
  + Start with the simplest test case of an empty string and move to 1 and two numbers
  + Remember to solve things as simply as possible so that you force yourself to write tests you did not think about
  + Remember to refactor after each passing test
* Allow the Add method to handle an unknown amount of numbers
* Allow the Add method to handle new lines between numbers (instead of commas).
  + the following input is ok:  “1\n2,3”  (will equal 6)
  + the following input is NOT ok:  “1,\n” (not need to prove it - just clarifying)
* **Support different delimiters**
  + To change a delimiter, the beginning of the string will contain a separate line that looks like this:   “//[delimiter]\n[numbers…]” for example “//;\n1;2” should return three where the default delimiter is ‘;’ .
  + The first line is optional. all existing scenarios should still be supported
* Calling Add with a negative number will throw an exception “negatives not allowed” - and the negative that was passed.if there are multiple negatives, show all of them in the exception message

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1. An empty string returns zero
2. A single number returns the value
3. Two numbers, comma delimited, returns the sum
4. Two numbers, newline delimited, returns the sum
5. Three numbers, delimited either way, returns the sum
6. Negative numbers throw an exception
7. Numbers greater than 1000 are ignored
8. A single char delimiter can be defined on the first line (e.g. //# for a ‘#’ as the delimiter)
9. A multi char delimiter can be defined on the first line (e.g. //[###] for ‘###’ as the delimiter)
10. Many single or multi-char delimiters can be defined (each wrapped in square brackets)