Exercise on Test Driven Development



- Before you start:
 - Try not to read ahead
 - Do one task at a time
 - Work incrementally
 - Make sure you only test for correct inputs, there is no need to test for invalid inputs
- Exercise by Roy Osherove



- I. Create a simple string calculator with a static method int Add(string numbers)
 - a. The method can take 0, I or 2 numbers, and will return their sum (for an empty string it will return 0) for example "" or "I" or "I,2"
 - b. Start with the simplest test case of an empty string and move to one and two numbers
 - c. Remember to solve things as simply as possible so that you force yourself to write tests you did not think about
 - d. Remember to refactor after each passing test



- Allow the Add method to handle an unknown amount of numbers
- 3. Allow the **Add** method to handle new lines between numbers (instead of commas).
 - a. the following input is ok: "I\n2,3" (will equal 6)
 - b. the following input is NOT ok: "I,\n" (not need to prove it just clarifying)

4. 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 "//;\n I;2" should return three where the default delimiter is ';'.
- the first line is optional. all existing scenarios should still be supported



- 5. 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
- 6. Numbers bigger than 1000 should be ignored, so adding 2 + 1001 = 2
- 7. Delimiters can be of any length with the following format: "//[delimiter]\n" for example: "//[***]\n|***2***3" should return 6
- 8. Allow multiple delimiters like this: "//[delim1][delim2]\n" for example "//[*][%]\n I*2%3" should return 6.
- Make sure you can also handle multiple delimiters with length longer than one char