String Lab

Objectives

1. At the end of this lab students should be intimately familiar with many of the commonly used String methods
2. Upon completing this lab, students will have extensively practiced manipulating and generating Strings of various sorts.

Overview

This lab will help you to become more familiar with the various methods available for working with strings.

Unit Test

You should write tests for the intended behavior of your code to check that your implementation meets the specifications below.

Instructions

Create a class of String utilities, called `MyStringUtils`. It should have static methods that perform the following tasks:

1. Combine an array of characters or Strings into one String, separated by commas
2. Break a String up into an array of Strings, one for each line in the original String
3. Given a string, rEVERSE-cAPITALIZE eVERY wORD iN tHE sTRING aND rETURN tHE rESULT.
4. Given a String, reverse each word in the string and return the result.
5. Given a String, remove all whitespace and return a string containing each word from the original string on a separate line
6. Given a string, return an array of every possible substring (every sequence of consecutive characters within the string)
7. (Optional Challenge:) Given an array of Strings, return a string containing each array element on a new line, right justified, truncated to no more than 80 characters, followed by a hexadecimal representation of the number of characters in the original string (you should have two columns of text; headings are optional).