CSC 330 Homework Assignment 4

Due on 12/09/2017 11:59pm

1. You have been asked to test a method called ‘catWhiteSpace’ in a ‘Paragraph’ object that, within the paragraph, replaces sequences of blank characters with a single blank character. Identify testing partitions for this example and derive a set of tests for the ‘catWhiteSpace’ method.
2. Unit Testing: Assume you have implemented the sorting algorithm named QuickSort. As you show the code to your co-worker, he makes fun of you stating that he has done a much better implementation. Watching the code, you realize he implemented BubbleSort. After some argument, you decide to make a little contest on that matter. You propose to write unit tests that measure the execution time of each of the algorithms on a given input. For reason of simplicity, the input shall be an array of integer numbers.

Implement test cases that measure execution times of the two algorithms on an arbitrary array of integers. To make these test cases real unit tests, include a check whether the output of each sorting algorithm is correct.

1. Write a scenario that could be used to help design tests for your project.