Comp 3220, Fall 2017 – Extra Credit Assignment

Programming in C# or Ruby

This is an **optional** extra credit assignment that will allow you to receive up to 5% extra credit that will be added to your class total.

For this programming assignment, you will have the option to select either **<u>C# or Ruby</u>** as a programming language to solve the problem below. Please submit your program in a zip file and upload it to Canvas under **Extra Credit Assignment**. Name your zip file using the following format: **cs_username.zip** OR **ruby_username.zip** depending on the programming language you select.

Write a program that takes a string value as an input, and checks if the string is valid based on the matching and order of the following symbols within the string: parentheses ( ), square brackets [ ], curly braces { } and quotation marks " ".
A valid input means:
- Any opening bracket (of the types listed above) must have a matching closing bracket.
- Any opening double quotation marks must be closed (just like brackets).
- Nested brackets are allowed, but no overlapping between different types of brackets is allowed:
    - For example:
    (some [text) more text]   *is not valid*
    {this (is [a "valid"] input) string}   *is valid*
- Any brackets between quotations must be ignored.
    - For example:
    (something "quoted text)"   *is not valid*
    This "is (ok", "so] is { this"   *is valid*