Reflection & Test Plan - Assignment 2 Question 10

Commentary

- what testing strategy you used (eg., JUnit)
  - Testing strategy was simple, just based on different data types. The constructor requires a String as a parameter so that covered pretty much every case. Blank strings were another test case.
- what code optimization techniques you followed, if any
  - Instead of string1 = string1 + string2 I used string1 += string2. I also used a simpler for loop for(type var : stack) which is great for when you have to do simple iterations. I added the only function into the constructor so that it runs the reversal when you create instantiate the class.

Normal Data

Test Run 1

Program Input

ReverseString firetruck = new ReverseString("firetruck");

Expected Program Output

firetruck backwards is: kcurterif

Actual Output

as expected

Test Run 2

Program Input

ReverseString firetruck = new ReverseString("abcba");

Expected Program Output

abcba backwards is: abcba

Actual Output

as expected

Test Run 3

Program Input

ReverseString firetruck = new ReverseString("12345");

Expected Program Output

12345 backwards is: 54321

Actual Output

as expected

Abnormal Data

Test Run 4

Program Input

<blank input>

Expected Program Output

backwards is:

Actual Output

as expected

Boundary Data

Test Run 5

Program Input

ReverseString firetruck = new ReverseString(12345);

Expected Program Output

Will not compile

Actual Output

as expected