# Test 1: getDimensionSubRateTest

## Purpose:

To demonstrate the ability to parse rates from sub tables. Every table consists of a column outlining the ranges of each attribute of a parcel (e.g. weight, height) and column outlining the respective sub-rates associated with each range. This test is for parsing rates associated with numerical attributes.

## Inputs and Expected Output:

The value (double) of the attribute being tested, and the columns to consider (ints). The output is the rate associated with the range that the attribute falls into.

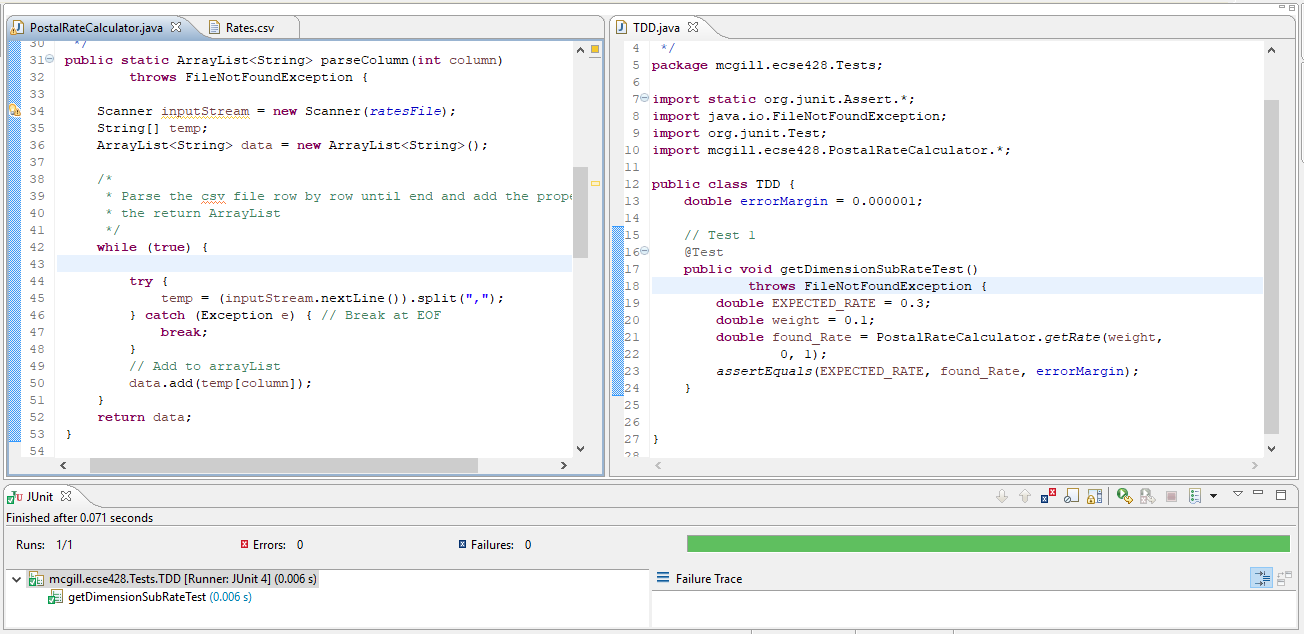
## Assumptions:

* The attribute have been verified to fall within range, and to be of correct format.

**Note:** The first and second screenshots illustrate the same test run but showing a helper method, and the tested method respectively. The success of the tested method indicates the success of the helper method.

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_1_Fail.pngFailing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_1.2_Pass.pngPassing Screenshot:



# Test 2: typeRate

## Purpose:

To demonstrate the ability to parse the sub rates associated with the type of postage.

## Inputs and Expected Output:

The type of desired postage (Regular, Xpress, or Priority) as a String. The expected output is the respective rate associated with the input postage type.

## Assumptions:

* The input has been verified to be one of the three postage types mentioned.

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_2_Fail.pngFailing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_2_Pass.pngPassing Screenshot:

# Test 3: toPostalCodeRate

## Purpose:

To demonstrate the ability to parse the sub rates associated with the destination (postal code) of the parcel.

## Inputs and Expected Output:

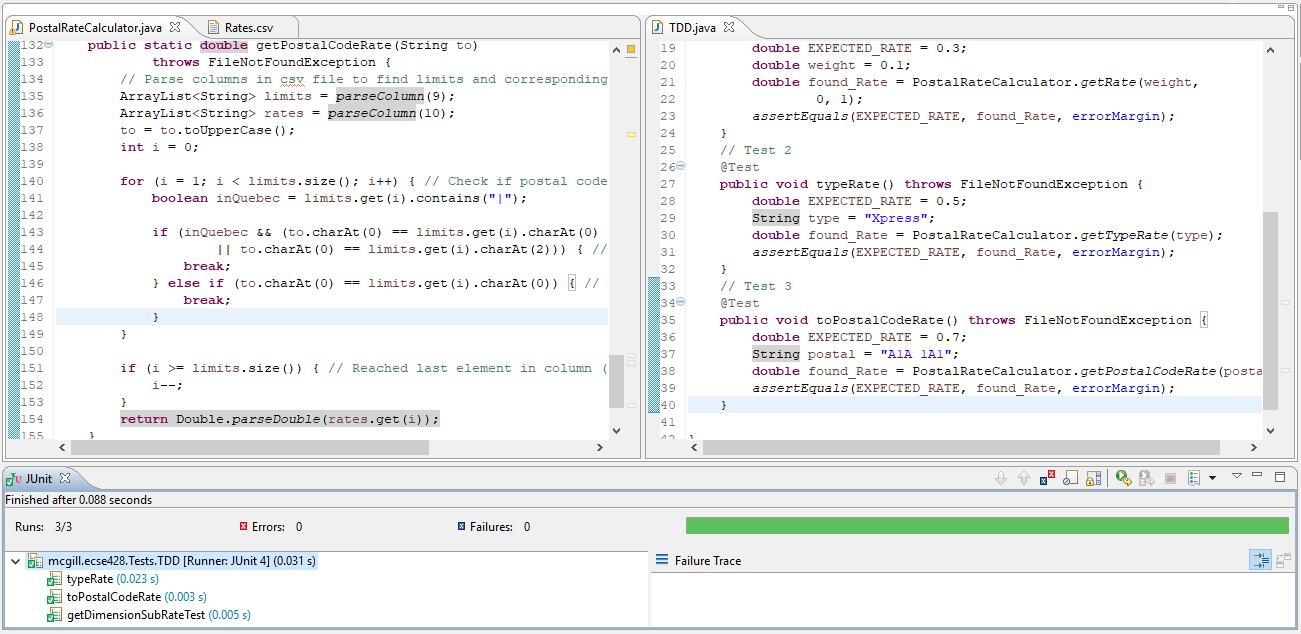
A string representing the destination postal code of the parcel (Starting with H to represent Montreal, G or J to represent the remainder of Quebec, and any other Letter to represent the rest of Canada). The expected output is the rate associated with the input postal code.

## Assumptions:

* This test assumes that the input postal code has been verified for proper postal code patterns.

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_3_Fail.pngFailing Screenshot:

## Passing Screenshot:



# Test 4: baseFullRateTest

## Purpose:

To demonstrate the ability to get the full rate of a parcel based on the sub rate of all it’s attributes.

## Inputs:

Double values representing the weight, height, width, length, and strings representing the destination postal code, and type of postage.

## Assumptions:

* All the double input values are within an accepted range, and of proper format.
* The origin postal code has been verified to be from Montreal (starting with an H)
* The origin and destination postal code match the proper postal code patterns.
* That the type of postage string has been verified to be one of the three postage types.

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_4_Fail.pngFailing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_4_Pass.pngPassing Screenshot:

# Test 5: fullRateWeightChange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_5_Pass.pngPassing Screenshot:

# Test 6: fullRateHeightChange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_6_Pass.pngPassing Screenshot:

# Test 7: fullRateLengthChange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_7_Pass.pngPassing Screenshot:

# Test 8: fullRateWidthChange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_8_Pass.pngPassing Screenshot:

# Test 9: fullRateTypeChange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_9_Pass.pngPassing Screenshot:

# Test 10: fullRateToPostalCodeChange

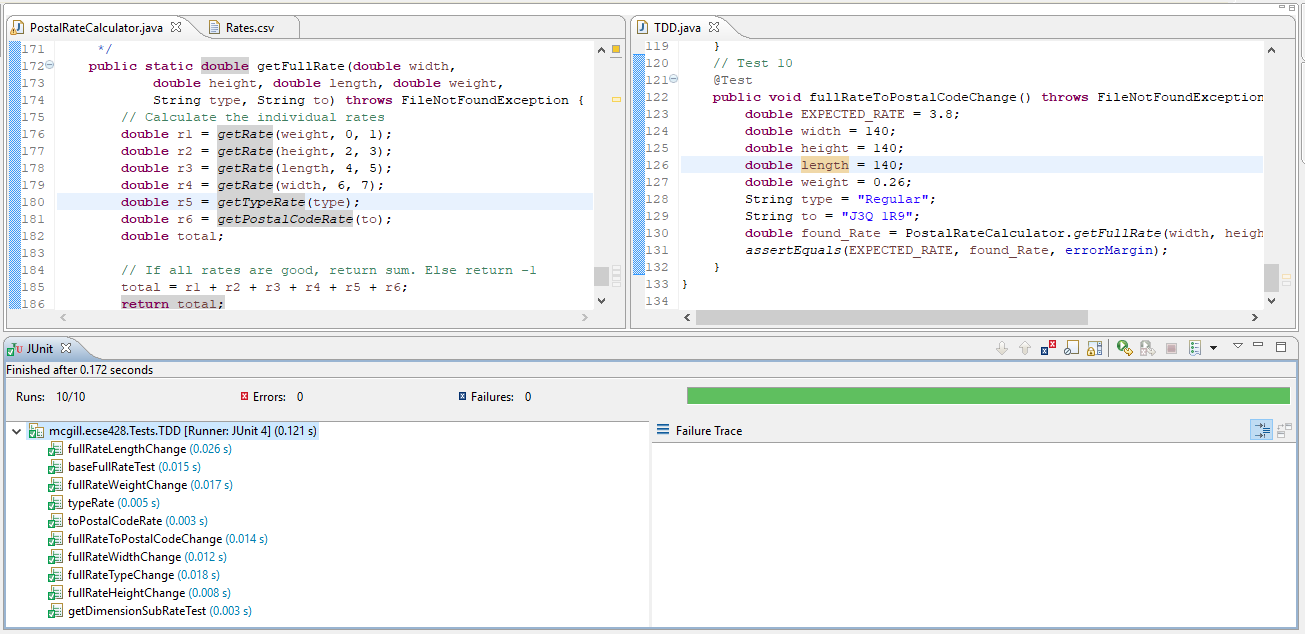
## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## Passing Screenshot:



# Test 11: inValidDimensionFormat

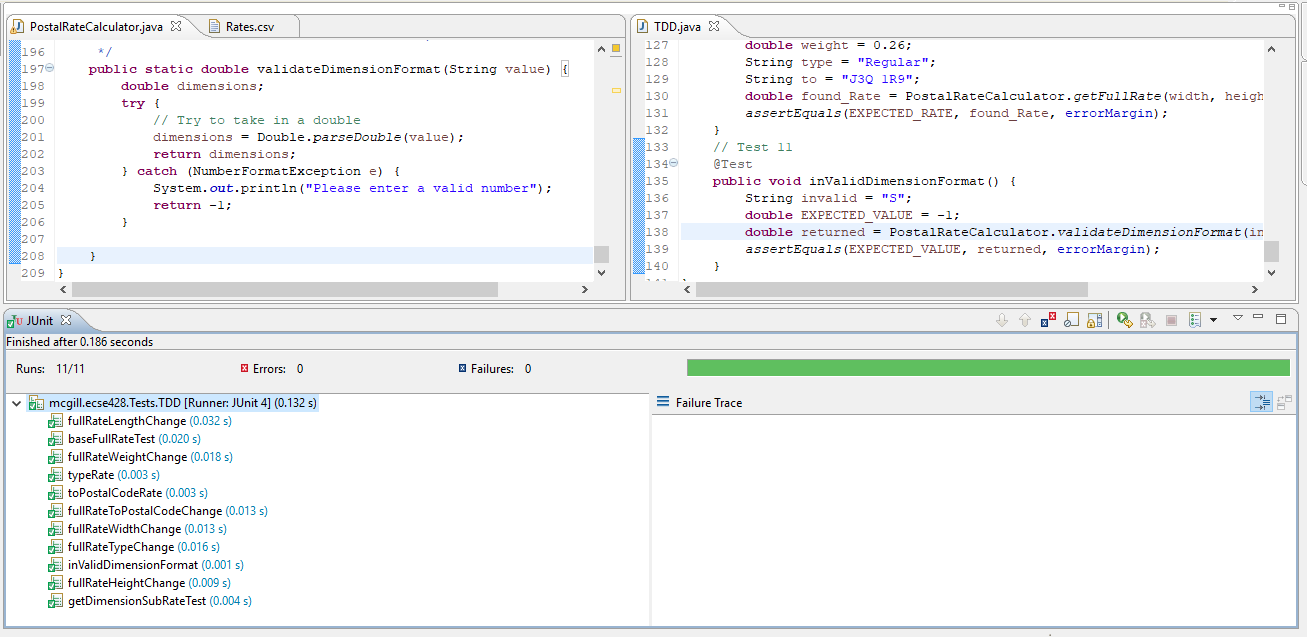
## Purpose:

## Inputs:

## Assumptions:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_11_Fail.pngFailing Screenshot:

## Passing Screenshot:



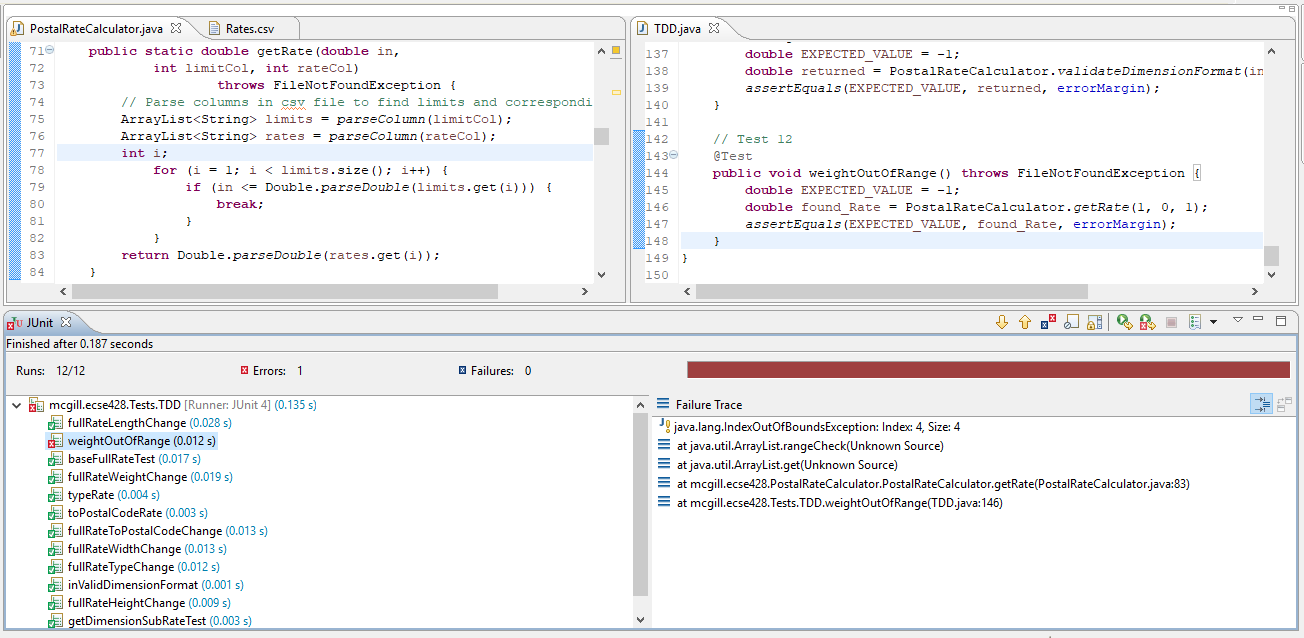
# Test 12: weightOutOfRange

## Purpose:

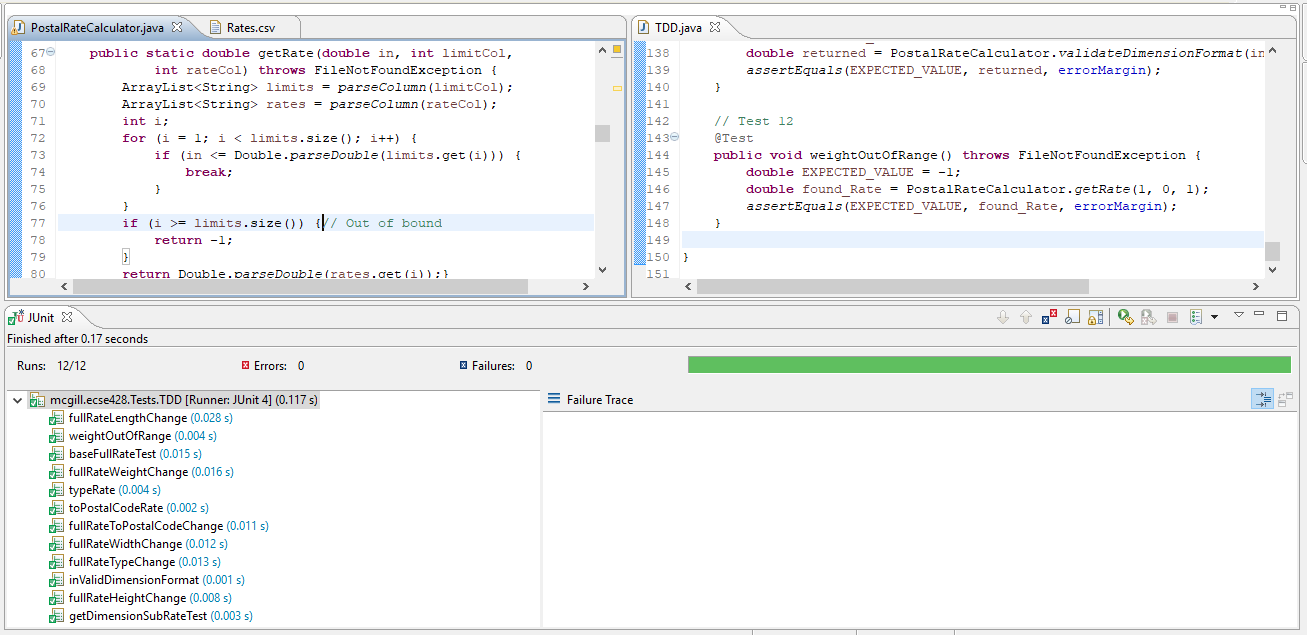
## Inputs:

## Assumptions:

## Failing Screenshot:



## Passing Screenshot:



# Test 13: heightOutOfRange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_13_Pass.pngPassing Screenshot:

# Test 14: lengthOutOfRange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_14_Pass.pngPassing Screenshot:

# Test 15: widthOutOfRange

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_15_Pass.pngPassing Screenshot:

# Test 16: invalidType

## Purpose:

## Inputs:

## Assumptions:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_16_Fail.pngFailing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_16_Pass.pngPassing Screenshot:

# Test 17: invalidFromPostalCode

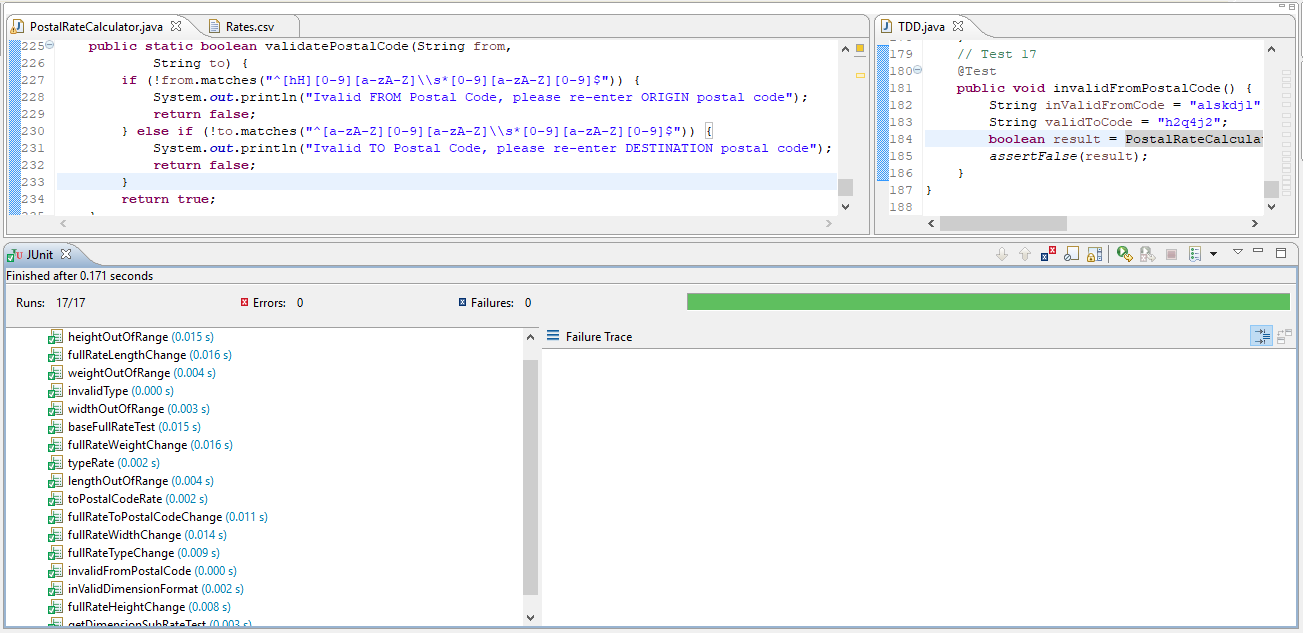
## Purpose:

## Inputs:

## Assumptions:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_17_Fail.pngFailing Screenshot:

## Passing Screenshot:



# Test 18: invalidToPostalCode

## Purpose:

## Inputs:

## Assumptions:

## Failing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_18_Pass.pngPassing Screenshot:

# Test 19: negativeDimensions

## Purpose:

## Inputs:

## Assumptions:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_19_Fail.pngFailing Screenshot:

## C:\Users\karim\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Test_19_Pass.pngPassing Screenshot: