Test Plan: EditableTextLineTest

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6 July 2018
CS1302

Test Case: Constructor Smaller than Default			
Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.capacity()	to verify capacity size		80
eLine.length()	to verify line length		5

Test Case: Constructor Larger than Default			
Operation	Purpose	Object State	Expected Result
eLine2 = new EditableTextLine("supercalifragilisticexpialidocious supercalifragilisticexpialidocious supercalifragilisticexpialidocious");	To create a new object passing the string " supercalifragilisticexpialidocious supercalifragilisticexpialidocious supercalifragilisticexpialidocious " as a parameter	capacity = 160; length = 102;	A new EditableTextLine object with user defined values
eLine.capacity()	to verify capacity size		160
eLine.length()	to verify line length		102

Test Case: Insert Beginning

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.insert(0,"hi")	to insert the fragment "hi" and specified index		hihello

Test Case: Insert Middle

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.insert(3,"hi")	to insert the fragment "hi" and specified index		helhilo

Test Case: Insert End

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.insert(5,"hi")	To insert the fragment "hi" and specified index		hellohi

Test Case: Replace Beginning

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.replace(2,3,"hi")	To replace the chars between beginning index and ending index with fragment "hi"		heho

Test Case: Replace Middle

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.replace(3,4,"hi")	To replace the chars between beginning index and ending index with fragment "hi"		helh

Test Case: Replace End

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.replace(4,5,"hi")	To replace the chars between beginning index and ending index with fragment "hi"		hellh

Test Case: Append			
Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.append("hi")	To append the argument to object eLine		hellohi

Test Case: Illegal Insert			
Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.insert(-1,"hi")	To verify an exception will be thrown with invalid index passed as parameter		TextLineIndexOutOfBoundsException thrown

Test Case: Illegal Replace			
Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("hello");	To create a new object passing the string "hello" as a parameter	capacity = 80; length = 5;	A new EditableTextLine object with user defined values
eLine.replace(-2,-4,"hi")	To verify an exception will be thrown with invalid index passed as parameter		TextLineIndexOutOfBoundsException thrown