

Project 4 Test Plan

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Operation	Purpose	Object State	Expected Result
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); System.out.println("Length: " + line.length()); System.out.println("Capacity: " + line.capacity());</pre>	Create an EditableTextLine with length shorter than the default capacity of the buffer.	Length = 17 Capacity = 80	Length: 17 Capacity: 80
<pre>EditableTextLine line = new EditableTextLine("My name is AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA"); System.out.println("Length: " + line.length()); System.out.println("Capacity: " + line.capacity());</pre>	Create an EditableTextLine with length longer than the default size to ensure proper size increase of the buffer.	Length = 100 Capacity = 160	Length: 100 Capacity: 160
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.append("AAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA"); System.out.println(line);</pre>	Append a String to the text line that causes the size to be greater than the default buffer size	Length = 99 Capacity = 160	My name is DarrenAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AA

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<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.insert(0, "AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA"); System.out.println(line);</pre>	Inserts a fragment at the beginning of the TextLine that causes the size to become greater than the default buffer size	Length = 99 Capacity = 160	AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAMy name is Darren
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.insert(line.length(), "AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA"); System.out.println(line);</pre>	Inserts a fragment at the end of the TextLine that causes the size to become greater than the default buffer size	Length = 99 Capacity = 160	My name is DarrenAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AA
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.replace(3, 7, "AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA"); System.out.println(line);</pre>	Replace "name" with a fragment that causes the size of the TextLine to become greater than the default buffer size	Length = 95 Capacity = 160	My AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA is Darren

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<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.replace(0, 2, "AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA"); System.out.println(line);</pre>	Replace "My" with a fragment that causes the size of the TextLine to become greater than the default buffer size	Length = 97 Capacity = 160	<pre>AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA name is Darren</pre>
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.replace(11, 17, "AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA"); System.out.println(line);</pre>	Replace "Darren" with a fragment that causes the size of the TextLine to become greater than the default buffer size	Length = 93 Capacity = 160	<pre>My name is AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAA</pre>
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.insert(-1, "illegal index"); System.out.println(line);</pre>	Inserts a String at an illegal index	Length = 17 Capacity = 80	TextLineIndexOutOfBoundsException: -1
<pre>EditableTextLine line = new EditableTextLine("My name is Darren"); line.insert(20, "illegal index"); System.out.println(line);</pre>	Inserts a String at an illegal index	Length = 17 Capacity = 80	TextLineIndexOutOfBoundsException: 20