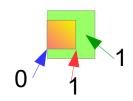
## A SIMPLE STRING EDITOR

Edit Functions
Insert/Append, Delete and Backspace
Navigation Functions

Left & Right Arrows

The String to be edited will be initialized to be one character long with that character being the SPACE character, ascii(32)

The cursor is placeholder that is initially defined as a character space (ascii 32) and is always highlighted.



CursorBegin

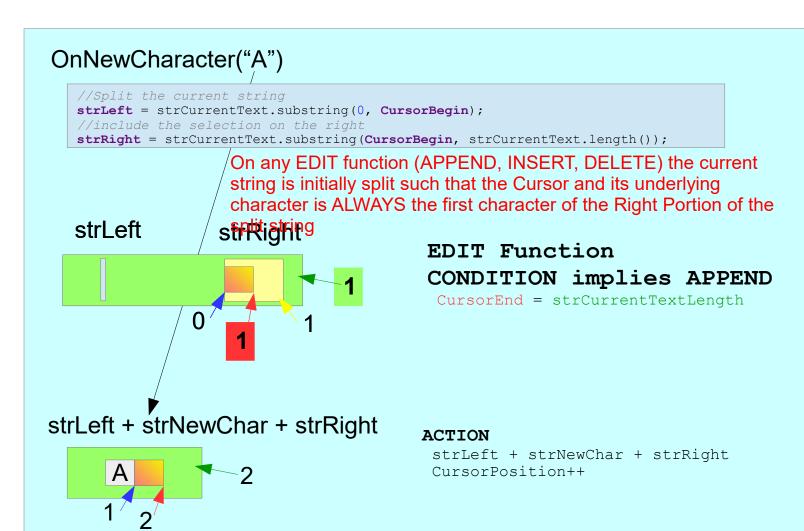
CursorEnd

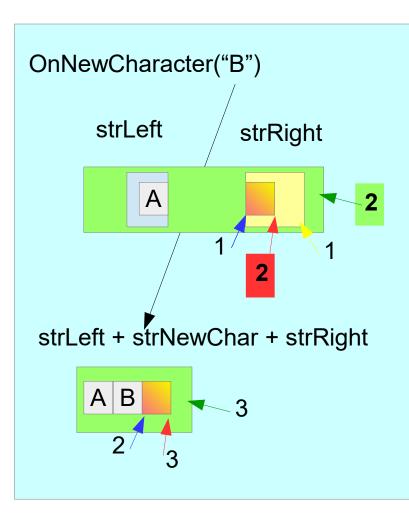
strCurrentTextLength

strRightLength

Cursor Character Placeholder

The last character is the cursor placeholder character and can NEVER be deleted



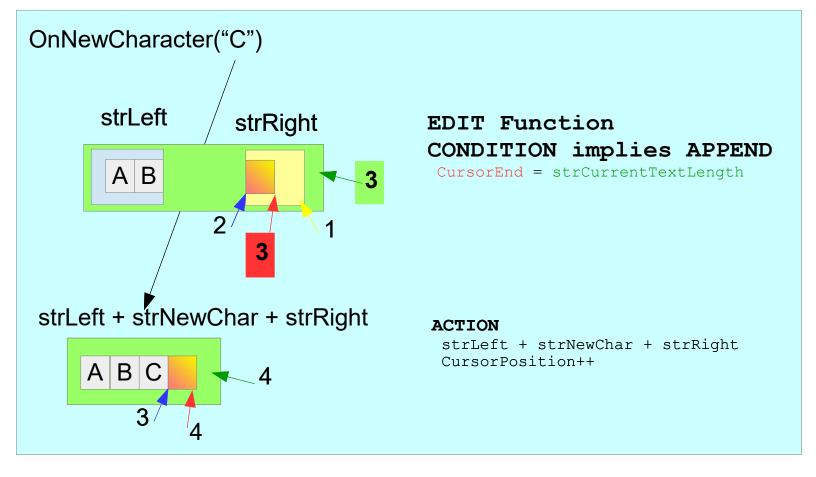


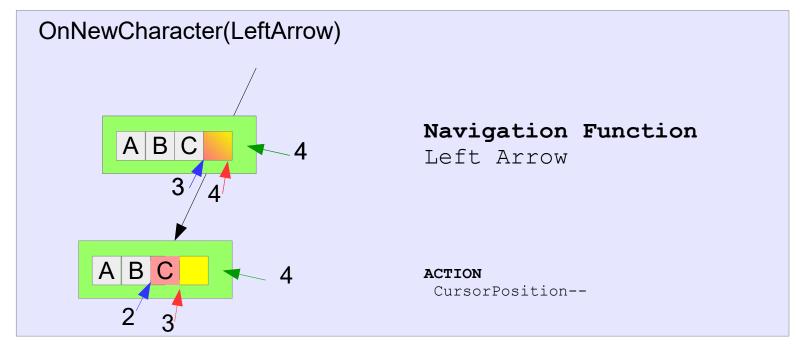
# EDIT Function CONDITION implies APPEND

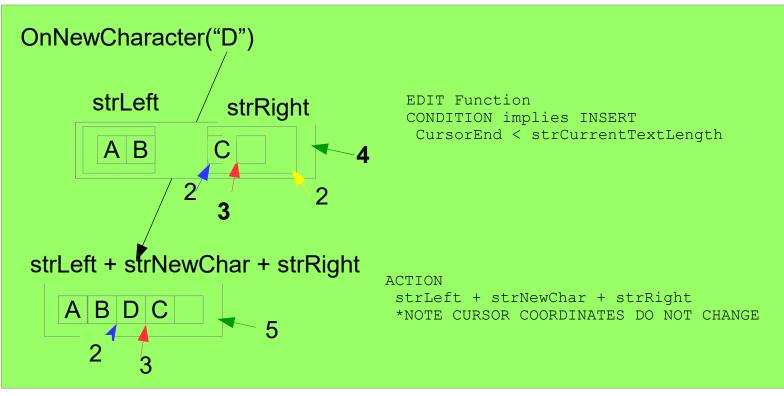
CursorEnd = strCurrentTextLength

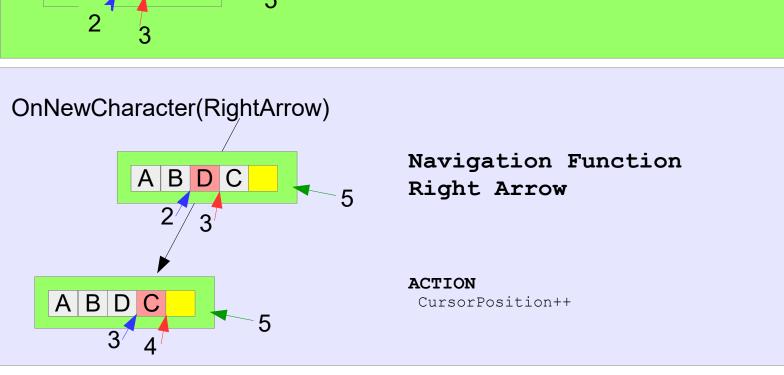
#### ACTION

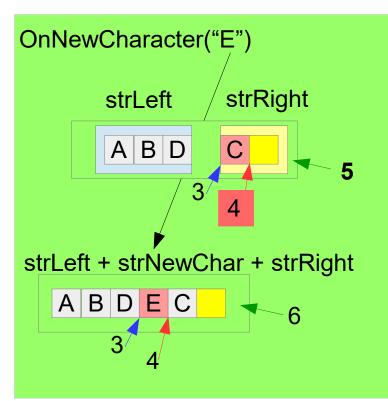
strLeft + strNewChar + strRight
CursorPosition++











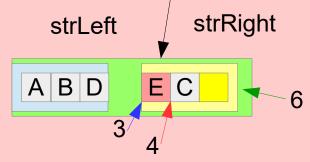
# EDIT Function CONDITION implies INSERT

CursorEnd < strCurrentTextLength</pre>

### ACTION

strLeft + strNewChar + strRight
\*NOTE CURSOR COORDINATES DO NOT CHANGE

## OnNewCharacter(Delete)



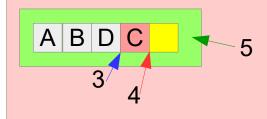
### Delete Function

The last character is the **cursor** place holder character and can NEVER be deleted

strModifiedRight = strRight.substring(1, strRight.lenght())



## strLeft + strModifiedRight



#### ACTION

strModifiedRight = strRight.substring(1, strRight.lenght())
strNewString = strLeft + strModifiedRight
\*NOTE CURSOR COORDINATES DO NOT CHANGE

## **NOTES**

The cursor is a placeholder that is initially defined as a character SPACE (ascii 32) and is ALWAYS highlighted. This initial SPACE character can NEVER be deleted AND is ALWAYS highlighted IF the string being edited is empty. Any character in the string being edited can be highlighted, thus identifying the cursors current placeholder.

On any EDIT function (APPEND, INSERT, DELETE) the current string is initially split such that the Cursor is ALWAYS the first character of the Right Portion of the split string

The Cursor Coordinates are ALWAYS and ONLY modified by the LEFT ARROW and RIGHT ARROW Navigation characters AND the APPEND Function

The new string resulting from the APPEND or INSERT Function is ALWAYS the concatenation of the Left portion of the split string + the New Character + the Right portion of the split string

The DELETE Function always operates on the character under the cursor which is ALWAYS the first character of Right portion of the split string

The BACKSPACE is simply a LEFT ARROW + DELETE

The CursorBegin coordinate is never referenced; however the coordinate is required as parameters for the *EditText.setSelection(begin, end)* Function