

Array Properties

Upper Bound:

The value of arrayName.GetUpperBound(0)

is the upper bound of arrayName().

Then What is the **Lower Bound**?

Ans: 0



```
Dim teamName() As String = {"Packers", _
"Packers", "Jets", "Chiefs"}
```

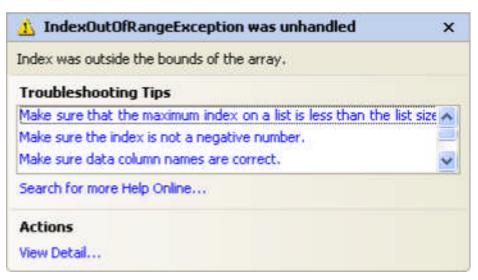
```
txtBox.Text = CStr(teamName.GetUpperBound(0))
```

Output: 3



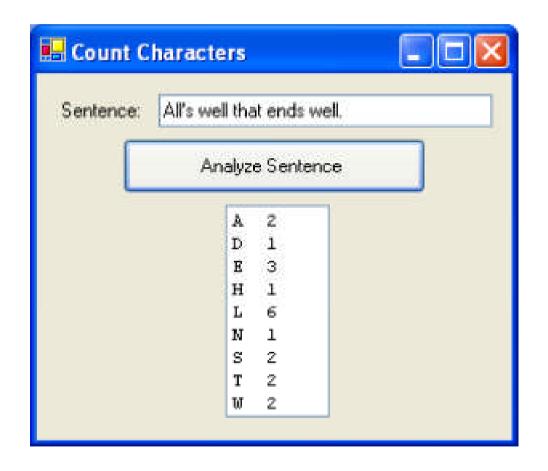
Out of Bounds Error

The following code references an array element that doesn't exist. This will cause an error.





Lab sheet 7.2: Using an Array as a Frequency Table





Lab sheet 7.2 : Code

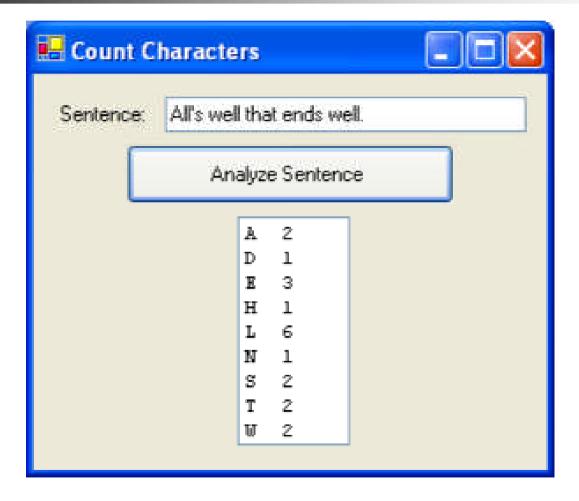
```
Private Sub btnAnalyze_Click(...) Handles btnAnalyze.Click
   'Count occurrences of the various letters in a sentence
   Dim sentence, letter As String
   Dim index, charCount(25) As Integer
   'Examine and tally each letter of the sentence
   sentence = (txtSentence.Text).ToUpper
   For letterNum As Integer = 1 To sentence.Length
    letter = sentence.Substring(letterNum - 1, 1)
    If (letter >= "A") And (letter <= "Z") Then
        index = Asc(letter) - 65 'The ANSI value of "A" is 65
        charCount(index) += 1
        End If
    Next</pre>
```



Example 4: Code Continued



Lab sheet 7.2: Output





Copying Arrays

If *arrayOne*() and *arrayTwo*() have been declared with the same data type, then the statement

arrayOne = arrayTwo

makes *arrayOne*() an exact duplicate of *arrayTwo*(). It will have the same size and contain the same information.

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