

Trace the following code segments. Assume all variables are declared & initialized to zero. Circle the final values of each variable in each exercise.

```
1.  
strPhrase = "electric eel"                intCount      J      strPhrase  
intCount = 0
```

```
For J = 0 To strPhrase.Length() - 1  
    If (strPhrase.Substring(J, 1)) = "e" Then  
        intCount += 1  
    End If  
Next
```

```
2.  
strPhrase = "elEctric eE1"                intCount      J      strPhrase  strLetter  
intCount = 0  
J = 0
```

```
Do While (J < strPhrase.Length())  
    strLetter = strPhrase.Substring(J, 1)  
  
    If (strLetter.ToUpper() = "E") Then  
        intCount += 1  
    End If  
  
    J += 1  
Loop
```

```
3.  
strPhrase = "electricity city"            strPhrase   strVowels   intCount   J      strLetter  
intCount = 0  
strVowels = "aeiou"
```

```
For J = 0 To strPhrase.Length() - 1  
    strLetter = strPhrase.Substring(J, 1)  
  
    If (strVowels.IndexOf(strLetter) >= 0) Then  
        intCount += 1  
    End If  
Next
```

```
4.                    strMonster1  strMonster2  intLength  intKKWin   J  
strMonster1 = "king kong"  
strMonster2 = "godzilla"  
intLength = Math.Min(strMonster1.Length(), strMonster2.Length())
```

```
For J = 0 To intLength - 1  
    If (strMonster1.Substring(J, 1) > strMonster2.Substring(J, 1)) Then  
        intKKWin += 1  
    End If  
Next
```

5. strPhrase

```

strPhrase = "George W Bush"
strPhrase = strPhrase.Substring(0, 6) + strPhrase.Substring(9)

```

6. intLength J strPhrase

```

strPhrase = "Wyomissing Area High School"
intLength = strPhrase.Length()

For J = intLength - 1 To 0 Step -1
    If (strPhrase.Substring(J, 1) = "s") Then
        strPhrase = strPhrase.Substring(0, J) + strPhrase.Substring(J + 1)
    End If
Next

```

7.

```

Dim strNames() As String = {"Jane", "Sally", "Bill", "Fred", "Mary"}

For J = 0 To strNames.Length()
    intLen = strNames(J).Length()
    intSum += intLen
Next J

```

8.

```

Dim strNames() As String = {"Jane", "Sally", "Bill", "Fred", "Mary"}

For J = 0 To strNames.Length()
    For K = 0 to strNames(J).Length() - 1
        If (strNames(J).Substring(K, 1) = "a" Or strNames(J).Substring(K, 1) = "i") Then
            intCount += 1
        End If
    Next K
Next J

```

J K intCount