## Errata for Visual Basic and Algorithmic Thinking for the Complete Beginner Second Edition

## **14.6 Review Exercises**

3. Write a Visual Basic program that prompts the user to enter his or her name and then creates a secret password consisting of three letters (in lowercase) randomly picked up from his or her name, and a random four-digit number. For example, if the user enters "Vassilis Bouras" a secret password can probably be one of "sar1359" or "vbs7281" or "bor1459". Space characters are not allowed in the secret password.

## 31.7 How to Add User-Entered Values to a One-Dimensional Array

There is nothing new here. Instead of reading a value from the keyboard and assigning that value to a variable, you can directly assign that value to a specific array element. The next Visual Basic program prompts the user to enter the names of four people, and assigns them to the elements at index positions 0, 1, 2, and 3, of the array names.

## Exercise 34.1-4 Merging Two-Dimensional Arrays

```
🗂 project 34 1 4
Const COLUMNS = 4
Sub Main(args As String())
 Dim i, j As Integer
 Dim a(,) As Integer = {
    {10, 11, 12, 85},
    \{3, 1, 5, 10\},\
    \{-1, 2, -5, -10\}
  }
 Dim b(,) As Integer = {
    \{10, 11, 16, 33\},\
    \{11, 13, 5, 55\},\
    \{-1, -2, -4, 44\},\
    {55, 33, 77, 12},
    \{-110, 120, 132, 43\}
  }
 Dim rows of a As Integer = a.Length / COLUMNS
 Dim rows of b As Integer = b.Length / COLUMNS
  'Create array new arr
 Dim new arr(rows of a + rows of b - 1, COLUMNS - 1) As Integer
 For i = 0 To rows of a - 1
    For j = 0 To COLUMNS - 1
      new arr(i, j) = a(i, j)
    Next
 Next
 For i = 0 To rows of b - 1
    For j = 0 To COLUMNS - 1
      new arr(rows of a + i, j) = b(i, j)
```

```
Next
Next
'Display array new_arr
For i = 0 To rows_of_a + rows_of_b - 1
For j = 0 To COLUMNS - 1
Console.Write(new_arr(i, j) & vbTab)
Next
Console.WriteLine()
Next
End Sub
```

Exercise 34.1-5 Creating Two Arrays – Separating Positive from Negative Values

Note that the arrays pos and neg contain a total number of pos\_index and neg\_index elements respectively. This is why the two last loop control structures iterate until variable i reaches values pos\_index - 1 and neg\_index - 1, respectively, and not until ELEMENTS - 1, as you may mistakenly expect. Obviously the sum of pos\_index + neg\_index equals to ELEMENTS.