## 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

```
                                    \square 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.

