

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

## 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**

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 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`.~~