

Answer the following exercises **and trace the variables** using the following arrays. Write "error" if an error would occur.

```
Dim mNums() As Integer = {0, 2, 30, 14, 15, 26, 5, 11}
```

```
Dim mScores() As Integer = {59, 75, 100, 88}
```

```
Private Sub Form1_Load(. . .)
```

```
    Dim J As Integer = 0
```

```
    Label1.Text = mNums(3) 1. _____
```

```
    Label2.Text = mNums(2) + mNums(4) 2. _____
```

```
    Label3.Text = mNums.Length() 3. _____
```

```
-----  
    Dim total As Integer = 0 J total
```

```
    For J = 0 To 3
```

```
        total = total + mScores(J)
```

```
    Next
```

```
    Label4.Text = total 4. _____
```

```
-----  
    Dim sum As Integer = 0 J sum
```

```
    For J = 0 To mScores.Length() - 1
```

```
        sum += mScores(J)
```

```
    Next
```

```
    Label5.Text = sum 5. _____
```

```
-----  
    Dim position As Integer = -1 J position
```

```
    For J = 0 To mScores.Length() - 1
```

```
        If (mScores(J) = 75) Then
```

```
            position = J
```

```
        End If
```

```
    Next
```

```
    Label6.Text = position 6. _____
```

```
    Explain why position was initialized to -1 rather than 0?
```

```
-----  
    Dim max As Integer = mScores(0) J max positionOfMax
```

```
    Dim positionOfMax As Integer = 0
```

```
    For J = 1 To mScores.Length() - 1
```

```
        If (mScores(J) > max) Then
```

```
            max = mScores(J)
```

```
            positionOfMax = J
```

```
        End If
```

```
    Next
```

```
    Label7.Text = max 7. _____
```

```
    Label8.Text = positionOfMax 8. _____
```

```
End Sub
```

```
Explain why max was initialized to mScores(0) rather than the value 0?
```

```
Explain why J begins at 1 rather than 0 in the last For loop?
```