

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

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

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

```
Private Sub Form1_Load(. . .)  
    Dim J As Integer = 0
```

```
    Label11.Text = mintNums(3) 1. _____
```

```
    Label12.Text = mintNums(2) + mintNums(4) 2. _____
```

```
    Label13.Text = mintNums(5) + mintNums(6) * mintNums(0) 3. _____
```

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

```
    For J = 0 To 3  
        intTotal = intTotal + mintScores(J)  
    Next
```

```
    Label14.Text = intTotal 4. _____
```

```
    Dim intSum As Integer = 0
```

```
    For J = 0 To mintScores.Length() - 1 J intSum  
        intSum += mintScores(J)
```

```
    Next 5. _____
```

```
    Label15.Text = intSum
```

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

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

```
        If (mintScores(J) = 75) Then  
            intPosition = J
```

```
        End If
```

```
    Next 6. _____
```

Label16.Text = intPosition

Explain why intPosition was initialized to -1 rather than 0?

```
Dim intMax As Integer = mintScores(0) J intMax intPositionOfMax
```

```
Dim intPositionOfMax As Integer = 0
```

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

```
    If (mintScores(J) > intMax) Then  
        intMax = mintScores(J)  
        intPositionOfMax = J
```

```
    End If
```

```
Next 7. _____
```

```
Label17.Text = intMax
```

```
Label18.Text = intPositionOfMax 8. _____
```

End Sub

Explain why intMax was initialized to mintScores(0) rather than the value 0?

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