

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
```

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

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

```
    Label3.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
```

```
    Label4.Text = intTotal 4. _____
```

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

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

```
        intSum += mintScores(J)
```

```
    Next
```

```
    Label5.Text = intSum 5. _____
```

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

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

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

```
            intPosition = J
```

```
        End If
```

```
    Next
```

```
    Label6.Text = intPosition 6. _____
```

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
```

```
    Label7.Text = intMax 7. _____
```

```
    Label8.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?