

Trace all variables and show the output displayed in lblResult in the following code segments. Show the final value of each variable and the final value of each element of mintScores. Assume mintScores represents 10 grades on an exam worth 100 points & is declared as a module level array with the statement

```
Dim mintScores() As Integer = {54, 82, 90, 77, 92, 68, 59, 89, 83, 77}
```

```
1.  
Dim intMin As Integer = 100  
For I = 0 to 9  
    If (mintScores(I) < intMin) Then  
        intMin = mintScores(I)  
    End If  
Next
```

```
lblResult.Text = intMin.ToString()
```

Why was intMin initialized to 100 rather than zero?

```
2.  
Dim intMax As Integer = 0  
  
For I = 1 to 9 Step 2  
    If (mintScores(I) > intMax) Then  
        intMax = mintScores(I)  
    End If  
Next
```

```
lblResult.Text = intMax.ToString()
```

```
3.  
Dim intNum As Integer = 0  
  
For I = 0 to 9  
    If (mintScores(I) < 70) Then  
        intNum = intNum + 1  
    End If  
Next
```

```
lblResult.Text = intNum.ToString()
```

```

4.
Dim intNum1 As Integer = 0
Dim dblNum2 As Double = 0.0

For I = 0 to 9
    If (mintScores(I) > 60) Then
        intNum1 = intNum1 + mintScores(I)
    End If
Next

dblNum2 = Math.Round(intNum / 10)
lblResult.Text = dblNum2.ToString()

```

```

5.
Dim intKey As Integer = 77
Dim intNum As Integer = 0

For I = 0 to 9
    If (mintScores(I) = intKey) Then
        intNum = intNum + 1
        Exit For
    End If
Next

```

6. In this exercise, trace the values in mintScores.

```

For I = 0 to 9
    If (mintScores(I) Mod 2 = 0) Then
        mintScores(I) = mintScores(I) + 1
    Else
        mintScores(I) = mintScores(I) - 2
    End If
Next

lblResult.Text = mintScores(3).ToString()

```

7. In this exercise, trace the values in mintScores.

```

Dim intNum As Integer = 0
Dim I as Integer = 0

For I = 0 to 9
    If (mintScores(I) > 70 Or mintScores(I) < 80) Then
        mintScores(I) = 0
    End If

    intNum += mintScores(I)
Next

lblResult.Text = intNum.ToString()

```