

Fill in the blanks in the code segment below which uses a binary search to search for a key in the array `mintScores`.

```
Dim mintScores() As Integer = {5, 13, 29, 31, 44, 53, 66, 75, 87, 99}
Dim intLow As Integer = 0
Dim intHigh As Integer = mintScores.Length() - 1
Dim intKey As Integer = 44
Dim intMid As Integer = intHigh / 2
Dim blnFound As Boolean = False

While (Not (blnFound) And _____ )

    If (mintScores( _____ ) = intKey) Then

        blnFound = True

    Else

        If (mintScores(intMid) > _____ ) Then

            _____ = intMid - 1

        ElseIf (intKey > _____ ) Then

            _____ = intMid + 1

        End If

        intMid = Math.Round((intLow + intHigh) / 2)
    End If

End While

If ( _____ = True) Then
    lblResult.Text = "Found in position " + Str(intMid)
Else
    lblResult.Text = "Not Found"
End If
```