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

```
Dim scores() As Integer = {5, 13, 29, 31, 44, 53, 66, 75, 87, 99}
Dim low As Integer = 0
Dim high As Integer = scores.Length() - 1
Dim key As Integer = 44
Dim mid As Integer = high / 2
Dim found As Boolean = False
While (Not (found) And ______)
  If (scores( ______ ) = key) Then
    found = True
  Else
    If (scores(mid) > ______ ) Then
             ____ = mid - 1
     ElseIf (key > _____
                                    ___ ) Then
              _____ = mid + 1
    End If
    mid = Math.Round((low + high) / 2)
  End If
End While
         _____ = True) Then
  lblResult.Text = "Found in position " + Str(mid)
  lblResult.Text = "Not Found"
End If
```