FIND THE HIGHEST SCORE
Highest Score Finder

scores(0) = 89
scores(1) = 95
scores(2) = 77
scores(3) = 65
scores(4) = 99

Which one is highest?
Operations on an Array:

- Highest Score finder

```csharp
'code for array creation, user input, etc. goes here
Dim highestScore As Double
highestScore = score(0)

For index = 1 To scores.GetUpperBound(0)
    If scores(index) > highestScore Then
        highestScore = scores(index)
    End If
Next index

Console.WriteLine("Highest Score: {0}", highestScore)
```
Linear Search

SEARCHING AN ARRAY
Searching an Array

- Find the first score equal to the user input

scores(0) = 89
scores(1) = 95
scores(2) = 77
scores(3) = 65
scores(4) = 65

*Assume, the user input is: 65*

*Output:*
Found at index 3

*Assume, the user input is: 66*

*Output: Not Found*
Operations on an Array:

Searching an Array: (Linear Search)

'code for array creation, user input, etc. goes here
Dim value As Double
Console.Write("Enter the value to search for:")
value = CDbl(Console.ReadLine()) 'value to search for

Dim found As Boolean
found = False
For index = 0 To scores.GetUpperBound(0)
    If scores(index) = value Then
        Console.WriteLine("Location {0}, Found it!", index)
        found = True
        Exit For
    End If
Next index

If Not found Then
    Console.WriteLine("Did Not Found..")
End If
More on Arrays

- VB.NET 2010 Reference