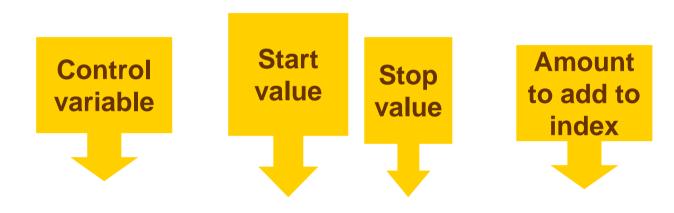


### Example: For.... To... Step



For index = 0 To n Step s
lstValues.Items.Add(index)

Next

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#### Example with Positive Step

```
Dim j As Integer
For j = 1 To 10 Step 2
  lstBox.Items.Add(j)
Next
lstBox.Items.Add("Blastoff")
```

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## Example with Negative Step

```
Dim j As Integer
For j = 10 To 1 Step -1
   lstBox.Items.Add(j)
Next
   lstBox.Items.Add("Blastoff")
```

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## Non-integer Step Values

 Can lead to round-off errors with the result that the loop is not executed the intended number of times.



#### Non-integer Step Example

A loop beginning with

```
For i As Double = 1 To 2 Step 0.1 will be executed only 10 times instead of the intended 11 times. It should be replaced with
```

```
For i As Double = __

1 To 2.01 Step 0.1
```

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A loop beginning with

For i As Double = 1 To 2 Step 0.1 will be executed only 10 times instead of the intended 11 times. It should be replaced with

```
For i As Double = _

1 To 2.01 Step 0.1
```

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# Lab 6.7 For Loop with Different Step

 Try Lab 6.7 to discover the characteristics of For ... Next Loop