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COMPUTER PROGRAMMING

REPETITION (LOOPS) – 2

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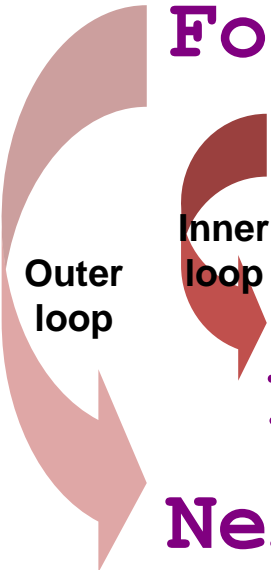
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Nested For...Next Loops

- Similar to nested If Blocks, when one For...Next Loop is contained inside another For...Next Loop , the structure is referred to as **nested For...Next Loop**.
- It is usual use if the **conditions** are more than **2**

Example Syntax: Nested For...Next Loops

```
For i As Integer = 65 To 70
  For j As Integer = 1 To 25
    ListBox.Items.Add(Chr(i) & j)
  Next
Next
```



Output: **A1**
 A2
 A3

For and Next Pairs

- For and Next statements must be paired.
- If one is missing, the automatic syntax checker will complain with a wavy blue underline and a message such as :

“A ‘For’ must be paired with a ‘Next’.”

Start, Stop, and Step values

- Consider a loop beginning with
For i As Integer = m To n Step s
- The loop will be executed exactly once if m equals n no matter what value s has.
- The loop will not be executed at all if m is greater than n and s is positive, or if m is less than n and s is negative.

List Boxes and Loops

- Some Properties of List Boxes
- List Boxes Populated with Strings
- List Boxes Populated with Numbers

List Box Properties

- The total number of items in a list box is

`lstBox.Items.Count`

- **Note:** Each item in `lstBox` is identified by an index number from 0 to `lstBox.Items.Count - 1`

- The value of the item with an index of n is:

`lstBox.Items(n)`

- To display the first element of `lstBox.Items` in a text box:

`txtBox.Text = lstBox.Items(0)`