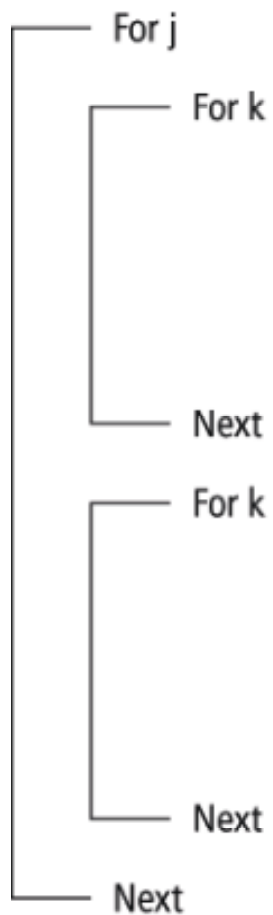




Nested For...Next Loops





Example: Seats on an Airplane

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

Outer loop
Inner loop

OUTPUT: A1
 A2
 A3
 :



Lab sheet 6.9: Nested For Loop

- Try Lab sheet 6.9 to discover the behavior of Nested For Loop.



For and Next Pairs

- For and Next statements must be paired.
- If one is missing, the automatic syntax checker will complain with a wavy 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.