

Sample Code – Counted Loop

```
var count : int           %create a counter
count := 1                %set a starting value
loop
  put count
  count := count + 1      %increment the counter
  exit when count > 10    %set end value
end loop
```

The For Loop

The counted loop is so common that a special type of loop was created to streamline the code.

```
for count : 1 .. 10  
  put count  
end for
```

Notes:

1. Do NOT declare the variable count. The for loop will take care of that automatically

Nested Loops

A nested loop is a loop within a loop. Consider the following:

```
for i : 1 .. 3
  for j : 1 .. 3
    put i * j
  end for
end for
```

What is the output?

Nested Loops

```
for i : 1 .. 3
  for j : 1 .. 3
    put i * j
  end for
end for
```

i	j	i*j
1	1	1
1	2	2
1	3	3
2	1	2
2	2	4
2	3	6
3	1	3
3	2	6
3	3	9

Exercises

See additional exercises and extensions on the course wiki:

<http://stevesweeney.pbwiki.com/Exercises+-+Intro+to+Counted+Loops>