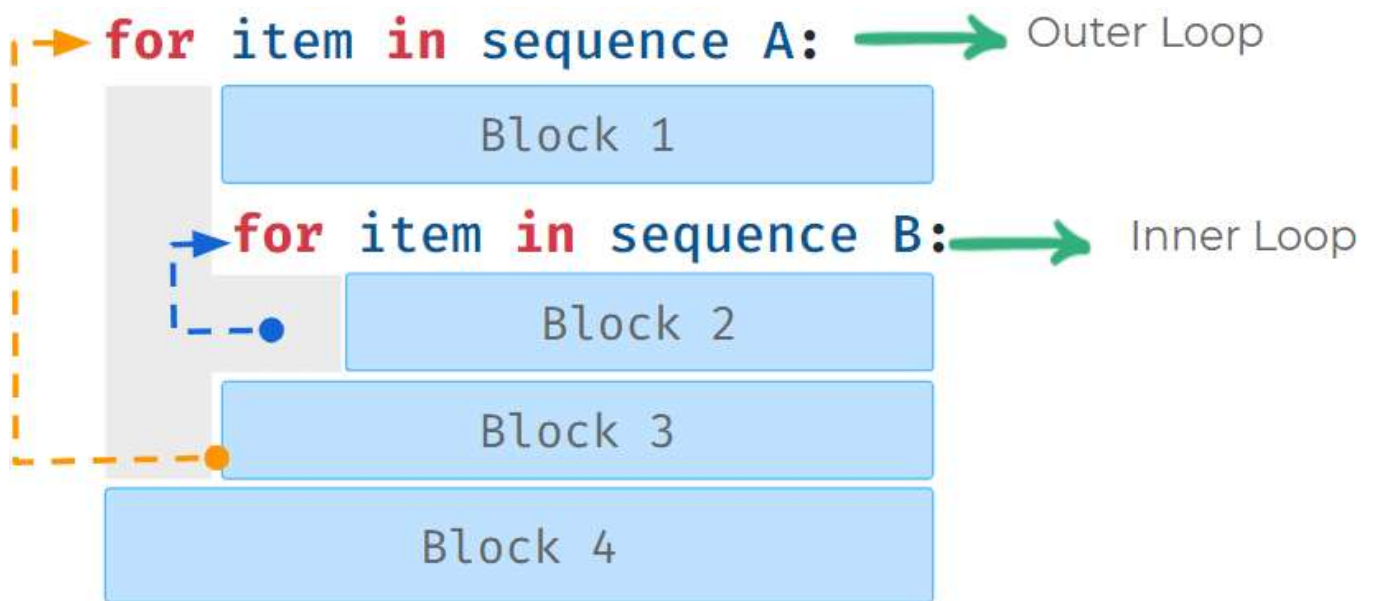


Cheat Sheet

Nested Loops

An inner loop within the repeating block of an outer loop is called Nested Loop.

The **Inner Loop** will be executed one time for each iteration of the **Outer Loop**.



Code

PYTHON

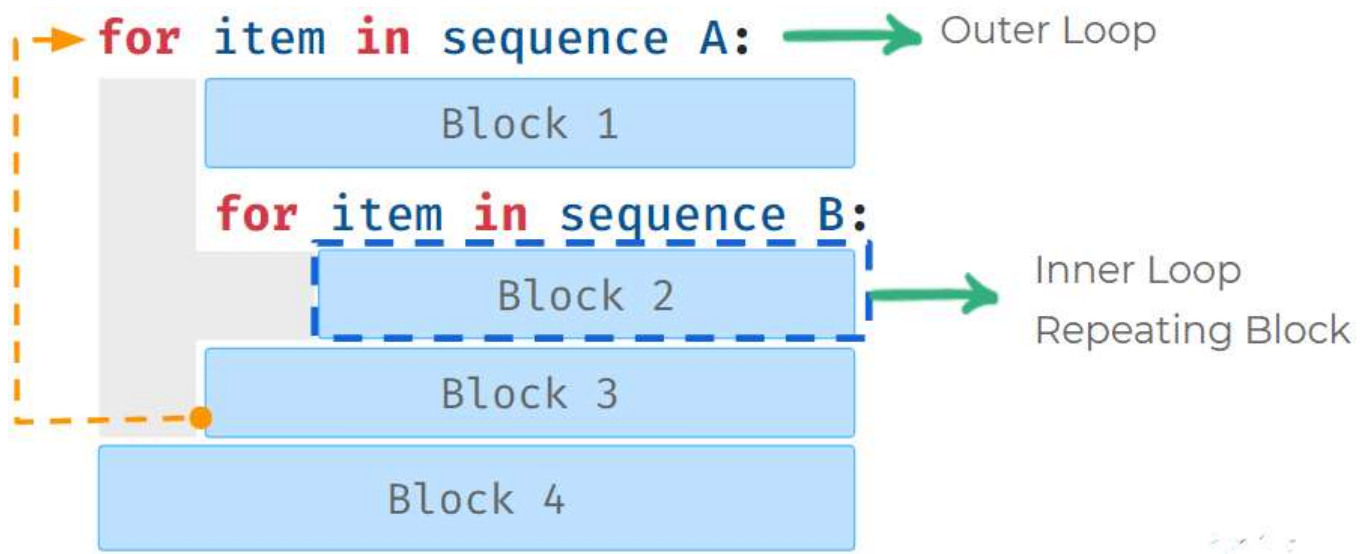
```
1 for i in range(2):
2     print("Outer: " + str(i))
3     for j in range(2):
4         print(" Inner: " + str(j))
```

Output

```
Outer: 0
  Inner: 0
  Inner: 1
Outer: 1
  Inner: 0
  Inner: 1
```

Nested Repeating Block

The one highlighted in the blue dotted line is the **repeating** block of the inner loop.



Code

PYTHON

```
1 for i in range(2):
2     print("Outer: " + str(i))
3     for j in range(2):
4         print(" Inner: " + str(j))
5     print("END")
```

In the above example, the below line is the repeating block of the nested loop.

Code

PYTHON

```
1 print(" Inner: " + str(j))
```

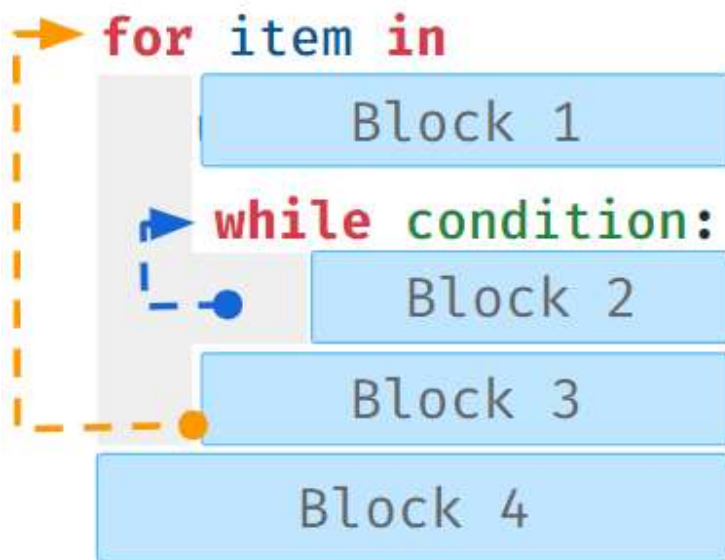
Output

```
Outer: 0
  Inner: 0
  Inner: 1
Outer: 1
  Inner: 0
  Inner: 1
```

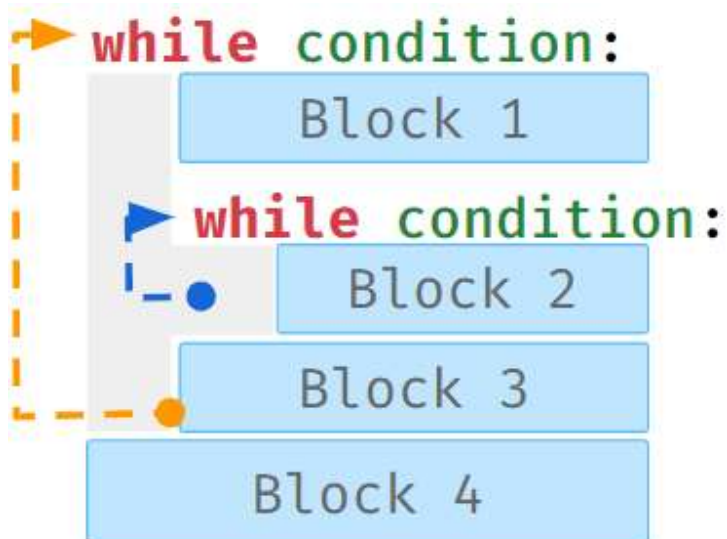
END

Examples - Nested Loops

Example - 1: While loop inside a For loop



Example - 2: While loop inside a while loop



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