Skipping loops

The Python **break** keyword can be used to prematurely terminate a loop when a specified condition is met. The **break** statement is situated inside the loop statement block and is preceded by a test expression. When the test returns **True**, the loop ends immediately and the program proceeds on to the next task. For example, in a nested inner loop it proceeds to the next iteration of the outer loop.



Start a new program with a statement creating a loop that iterates three times for i in range(1, 4):

Next, add an indented statement creating a "nested" inner loop that also iterates three times for j in range(1, 4) :

Now, add a further-indented statement in the inner loop to display the counter numbers (of both the outer loop and the inner loop) on each iteration of the inner loop **print('Running i=', i, 'j=', j)**



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Save then run this program – to see the counter values on each loop iteration

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>>	>									
Run	ning	i = 1	j = 1							
Run	ning	i = 1	j = 2							
Run	ning	i = 1	j = 3							
Run	ning	i = 2	j = 1							
Run	ning	i = 2	j = 2							
Run	ning	i = 2	j = 3							
Run	ning	i = 3	j = 1							
Run	ning	i = 3	j = 2							
Run	ning	i = 3	j = 3							
>>	>									



Compare these nested **for** loops with the nested **while** loops example on page 67.