

Nested for loop

Program:

```
list1 = [[1,2,3,4,5],  
         [6,7,8,9,10],  
         [11,12,13,14,15]]
```

```
for var in list1:  
    print(var)
```

<i>Iteration 1 :</i> <i>var = [1,2,3,4,5]</i>	
<i>var [1,2,3,4,5]</i>	<i>Print('var',[1,2,3,4,5])</i>

```
list1 = [[1,2,3,4,5],  
         [6,7,8,9,10],  
         [11,12,13,14,15]]
```

```
for var in list1:  
    print(var)
```

<i>Iteration 2 :</i> <i>var = [6,7,8,9,10]</i>	
<i>var [6,7,8,9,10]</i>	<i>Print('var',[6,7,8,9,10])</i>

```
list1 = [[1,2,3,4,5],  
         [6,7,8,9,10],  
         [11,12,13,14,15]]
```

```
for var in list1:  
    print(var)
```

<i>Iteration 1 :</i> <i>var = [11,12,13,14,15]</i>	
<i>var [11,12,13,14,15]</i>	<i>Print('var',[11,12,13,14,15])</i>

Program:

```
list1 = [[1,2,3,4,5],  
         [6,7,8]]
```

```
for var in list1:  
    print('var',var)  
    for j in range(0,len(var)):  
        print(var[j])
```

Iteration 1:	var = [1,2,3,4,5]
var [1,2,3,4,5]	Print('var',[1,2,3,4,5])
j = 0	range(0,5)
1	([1,2,3,4,5]) [0]

```
list1 = [[1,2,3,4,5],  
         [6,7,8]]
```

```
for var in list1:  
    print('var',var)  
    for j in range(0,len(var)):  
        print(var[j])
```

Iteration 2:	var = [1,2,3,4,5]
var [1,2,3,4,5]	Print('var',[1,2,3,4,5])
j = 1	range(0,5)
2	([1,2,3,4,5]) [1]

```
list1 = [[1,2,3,4,5],
         [6,7,8]]
```

```
for var in list1:
    print('var',var)
    for j in range(0,len(var)):
        print(var[j])
```

Iteration 3:	var = [1,2,3,4,5]
var [1,2,3,4,5]	Print('var',[1,2,3,4,5])
j = 2	range(0,5)
3	([1,2,3,4,5]) [2]

```
list1 = [[1,2,3,4,5],
         [6,7,8]]
```

```
for var in list1:
    print('var',var)
    for j in range(0,len(var)):
        print(var[j])
```

Iteration 4:	var = [1,2,3,4,5]
var [1,2,3,4,5]	Print('var',[1,2,3,4,5])
j = 3	range(0,5)
4	([1,2,3,4,5]) [3]

```
list1 = [[1,2,3,4,5],
         [6,7,8]]
```

```
for var in list1:
    print('var',var)
    for j in range(0,len(var)):
        print(var[j])
```

Iteration 5:	var = [1,2,3,4,5]
var [1,2,3,4,5]	Print('var',[1,2,3,4,5])
j = 4	range(0,5)
5	([1,2,3,4,5]) [4]

```
list1 = [[1,2,3,4,5],
         [6,7,8]]
```

```
for var in list1:
    print('var',var)
    for j in range(0,len(var)):
        print(var[j])
```

Iteration 6:	var = [6,7,8]
var [6,7,8]	Print('var',[6,7,8])
j = 0	range(0,3)
6	([6,7,8]) [0]

```
list1 = [[1,2,3,4,5],
         [6,7,8]]
```

```
for var in list1:
    print('var',var)
    for j in range(0,len(var)):
        print(var[j])
```

Iteration 7:	var = [6,7,8]
var [6,7,8]	Print('var',[6,7,8])
j = 1	range(0,3)
7	([6,7,8])[1]

```
list1 = [[1,2,3,4,5],  
         [6,7,8]]
```

```
for var in list1:
```

```
    print('var',var)
```

```
    for j in range(0,len(var)):
```

```
        print(var[j])
```

Iteration 8:	var = [6,7,8]
var [6,7,8]	Print('var',[6,7,8])
j = 2	range(0,3)
8	([6,7,8]) [2]