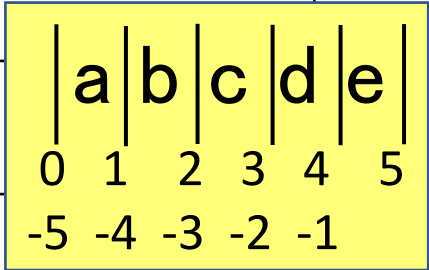


	Python		VBA	
1文字取得	txt = 'abcde' print(txt[4])	e	txt = "abcde" Debug.Print Mid(txt, 5, 1)	e
	print('abcde'[4])			
後ろから 1文字取得			txt = "abcde" Debug.print Mid(txt, Len(txt), 1)	e
	txt = 'abcde' print(txt[-1])	e	txt = "abcde" Debug.print Mid(txt, Len(txt)-1, 1)	d
スライスする	txt = 'abcde' print(txt[0:3])	abc		
	txt = 'abcde' print(txt[:3])			
	txt = 'abcde' print(txt[-3:])		cde	
 <pre>   a   b   c   d   e     0   1   2   3   4   5     -5   -4   -3   -2   -1   </pre>				
1文字ずつ 取得	txt = 'abcde' for i in txt: print(i)	a b c d e	Dim txt As String txt = "abcde" Dim i As Long For i=1 To Len(txt) Debug.Print Mid(txt, i,1)	a b c d e
	for i in 'abcde' : print(i)		Next	
文字を探す	txt = 'abcde' print(txt, find('b'))	1	txt = "abcde" Debug.print Instr(txt, "b")	2

	Python		VBA	
配列	arr = [1, 2, 3, 4, 5] print(arr[0])	1	arr = Array(1, 2, 3, 4, 5) Debug.Print arr(0)	1
	arr = [1, 2, 3, 4, 5] print(arr[-2])	4		
	arr = [1, 2, 3, 4, 5] print(arr)	[1, 2, 3, 4, 5]		
	arr = [1, 2, 3, 4, 5] print(arr[:3])	[1, 2, 3]		
	arr = [1, 2, 3, 4, 5] for i in arr: print (i)	1 2 3 4 5	Dim arr As Variant arr = Array(1, 2, 3, 4, 5) Dim i As Variant For Each i In arr Debug.Print i Next	1 2 3 4 5

リストから順番に変数に代入

for 変数 in リスト  
繰返し処理

for i in arr: の意味は「for each i in arr」

pythonのfor文は、VBAのFor Each～Nextと同じく、繰返し処理可能なデータやデータ構造から、要素を順番に取得する構文

## 角カッコはリスト

Python

```
arr = list(range(1, 6))  
print(arr)
```

[1, 2, 3, 4, 5]

```
arr = [1, 2, 3, 4, 5]  
arr.append(6)  
print(arr)
```

[1, 2, 3, 4, 5, 6]

```
arr = [3, 1, 5, 4, 2]  
arr.sort()  
print(arr)
```

[1, 2, 3, 4, 5]

```
arr = [3, 1, 5, 4, 2]  
arr.sort(reverse=True)  
print(arr)
```

[5, 4, 3, 2, 1]

```
arr = [3, 1, 5, 4, 2]  
arr_new = sorted(arr)  
print(arr_new)  
print(arr)
```

[1, 2, 3, 4, 5]

[3, 1, 5, 4, 2]

丸カッコの「タプル」はappendメソッドで要素追加やsortメソッドで並べ替えなどの変更はできない

```
tpl = (1, 2, 3, 4, 5)  
for i in tpl:  
    print(i)
```

1

2

3

4

5