

控制流

for

```
In : l = [1, 3, 6]
```

```
In : for i in l:  
...:     print(i)
```

```
...:
```

```
1
```

```
3
```

```
6
```

```
In : d = {'a': 1, 'b': 2}
```

```
In : for k in d:  
...:     print(k, d[k])  
...:  
a 1  
b 2
```

```
In : for k, v in d.items():  
...:     print(k, v)  
...:  
a 1  
b 2
```

if

```
In : if int(input('Enter an integer : ')) == 1:  
....:     print('Yeah!')  
....:  
Enter an integer : 1  
Yeah!
```

```
In : if int(input('Enter an integer : ')) == 1:  
....:     print('Yeah!')  
....:  
Enter an integer : 2
```

```
In : if int(input('Enter an integer : ')) == 1:
....:     print('Yeah!')
....:else:
....:     print('Oops!')
....:
Enter an integer : 2
Oops!
```

```
In : if i < 10:
....:     print('< 10')
....:elif i < 20:
....:     print('10 <= i < 20')
....:else:
....:     print('>= 20')
....:
10 <= i < 20
```

while

```
In : a = 0
```

```
In : while a < 3:
```

```
...:     print(a)
```

```
...:     a += 1
```

```
...:
```

```
0
```

```
1
```

```
2
```

break

```
In : l = [1, 3, 6]
```

```
In : for i in l:  
....:     if i > 5:  
....:         break  
....:     print(i)  
....:  
1  
3
```


continue

```
In : l = [1, 3, 6]
```

```
In : for i in l:  
.....:     if i == 3:  
.....:         continue  
.....:     print(i)  
.....:  
1  
6
```

else

```
In : for i in l:  
....:     continue  
....: else:  
....:     print('do else')  
....:  
do else
```

```
In : for i in l:  
....:     if i == 3:  
....:         break  
....: else:  
....:     print('do else')  
....:
```

```
In : i = 1
```

```
In : while 1:
```

```
.....:     print(i)
```

```
.....:     if i > 2:
```

```
.....:         break
```

```
.....:     i += 1
```

```
.....: else:
```

```
.....:     print('do else')
```

```
.....:
```

```
1
```

```
2
```

```
3
```

range

```
In : range(5)
```

```
Out: range(0, 5)
```

```
In : list(range(5))
```

```
Out: [0, 1, 2, 3, 4]
```

```
In : list(range(1, 5))
```

```
Out: [1, 2, 3, 4]
```

```
In : list(range(1, 5, 2))
```

```
Out: [1, 3]
```

pass

```
In : class MyEmptyClass:  
.....:     pass  
.....:
```

```
In : while False:  
.....:     pass  
.....:
```

延伸阅读

1. <https://docs.python.org/3/tutorial/controlflow.html>
2. https://python.swaroopch.com/control_flow.html