



Unicom TIC

Loops



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THE WHILE LOOP

With the while loop we can execute a set of statements as long as a condition is true.

```
i = 1
```

```
while i < 6:  
    print(i)  
    i += 1
```



THE BREAK STATEMENT

With the `break` statement we can stop the loop even if the while condition is true:

```
i = 1

while i < 6:
    print(i)
    if i == 3:
        break
    i += 1
```



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THE CONTINUE STATEMENT

With the continue statement we can stop the current iteration, and continue with the next:

```
i = 0
```

```
while i < 6:  
    i += 1  
    if i == 3:  
        continue  
    print(i)
```



THE ELSE STATEMENT

With the else statement we can run a block of code once when the condition no longer is true:

```
i = 1

while i < 6:
    print(i)
    i += 1
else:
    print("i is no longer less than 6")
```



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PYTHON FOR LOOPS

The range() Function

To loop through a set of code a specified number of times, we can use the range() function,

The range() function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and ends at a specified number.

```
for x in range(6):  
    print(x)
```

```
for x in range(2, 6):  
    print(x)
```

```
for x in range(2, 30, 3):  
    print(x)
```

```
for x in range(6):  
    print(x)  
else:  
    print("Finally finished!")
```

```
for x in range(6):  
    if x == 3: break  
    print(x)  
else:  
    print("Finally finished!")
```

LOOP WILL
CONTINUE