

Python break and continue

 programiz.com/python-programming/break-continue

Join our newsletter for the latest updates.

In this article, you will learn to use break and continue statements to alter the flow of a loop.

What is the use of break and continue in Python?

In Python, `break` and `continue` statements can alter the flow of a normal loop.

Loops iterate over a block of code until the test expression is false, but sometimes we wish to terminate the current iteration or even the whole loop without checking test expression.

The `break` and `continue` statements are used in these cases.

Python break statement

The `break` statement terminates the loop containing it. Control of the program flows to the statement immediately after the body of the loop.

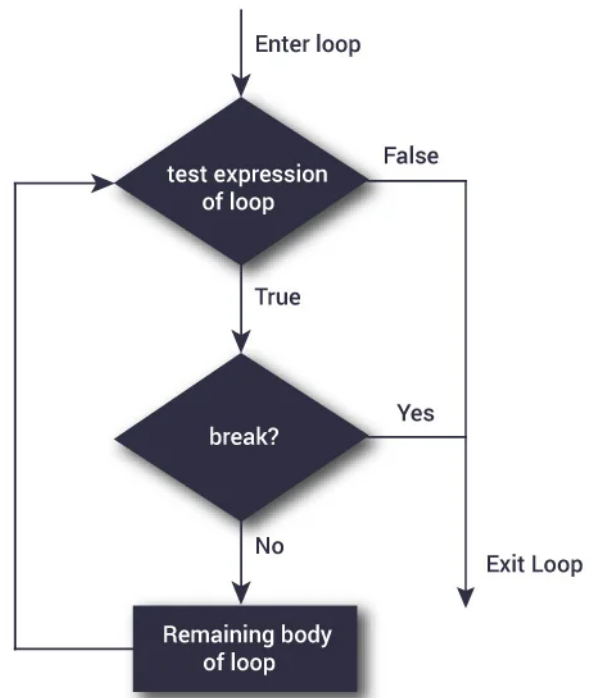
If the `break` statement is inside a nested loop (loop inside another loop), the `break` statement will terminate the innermost loop.

Syntax of break

```
break
```

Flowchart of break

The working of break statement in for loop and while loop is shown below.



Flowchart of break statement in Python

```

for var in sequence:
    # codes inside for loop
    if condition:
        break
    # codes inside for loop
# codes outside for loop
  
```

```

while test expression:
    # codes inside while loop
    if condition:
        break
    # codes inside while loop
# codes outside while loop
  
```

Working of the break statement

Example: Python break

```
# Use of break statement inside the loop

for val in "string":
    if val == "i":
        break
    print(val)

print("The end")
```

Output

```
s
t
r
The end
```

In this program, we iterate through the "string" sequence. We check if the letter is i, upon which we break from the loop. Hence, we see in our output that all the letters up till i gets printed. After that, the loop terminates.

Python continue statement

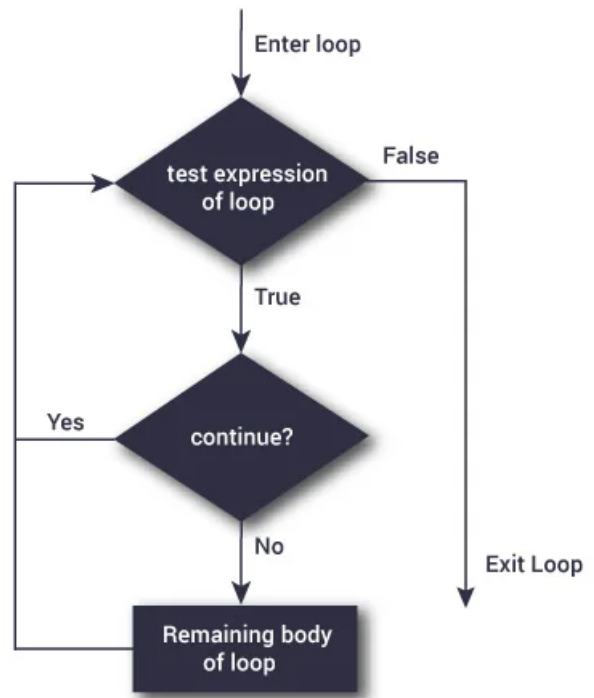
The `continue` statement is used to skip the rest of the code inside a loop for the current iteration only. Loop does not terminate but continues on with the next iteration.

Syntax of Continue

```
continue
```

Flowchart of continue

The working of the `continue` statement in for and while loop is shown below.



Flowchart of continue statement in Python

```

for var in sequence:
    # codes inside for loop
    if condition:
        continue
    # codes inside for loop

# codes outside for loop
  
```

```

while test expression:
    # codes inside while loop
    if condition:
        continue
    # codes inside while loop

# codes outside while loop
  
```

How continue statement works in python

Example: Python continue

Program to show the use of continue statement inside loops

```

for val in "string":
    if val == "i":
        continue
    print(val)

print("The end")
  
```

Output

```
s  
t  
r  
n  
g  
The end
```

This program is same as the above example except the `break` statement has been replaced with `continue` .

We continue with the loop, if the string is `i`, not executing the rest of the block. Hence, we see in our output that all the letters except `i` gets printed.