

# Python For Loops

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### Python For Loops

A for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string).

This is less like the for keyword in other programming languages, and works more like an iterator method as found in other object-orientated programming languages.

With the for loop we can execute a set of statements, once for each item in a list, tuple, set etc.

#### Example

Print each fruit in a fruit list:

```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
   print(x)
```

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The for loop does not require an indexing variable to set beforehand.

### Looping Through a String

Even strings are iterable objects, they contain a sequence of characters:

### Example

Loop through the letters in the word "banana":

```
for x in "banana":
   print(x)
```

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### The break Statement

With the **break** statement we can stop the loop before it has looped through all the items:

#### Example

Exit the loop when x is "banana":

```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
  print(x)
  if x == "banana":
     break
```

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### Example

Exit the loop when x is "banana", but this time the break comes before the print:

```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
   if x == "banana":
      break
   print(x)
```

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### The continue Statement

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

### Example

Do not print banana:

```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
   if x == "banana":
      continue
   print(x)
```

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### 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.

### Example

Using the range() function:

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

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Note that range(6) is not the values of 0 to 6, but the values 0 to 5.

The range() function defaults to 0 as a starting value, however it is possible to specify the starting value by adding a parameter: range(2, 6), which means values from 2 to 6 (but not including 6):

#### Example

Using the start parameter:

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

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The range() function defaults to increment the sequence by 1, however it is possible to specify the increment value by adding a third parameter: range(2, 30, 3):

### Example

Increment the sequence with 3 (default is 1):

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

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## Else in For Loop

The else keyword in a for loop specifies a block of code to be executed when the loop is finished:

### Example