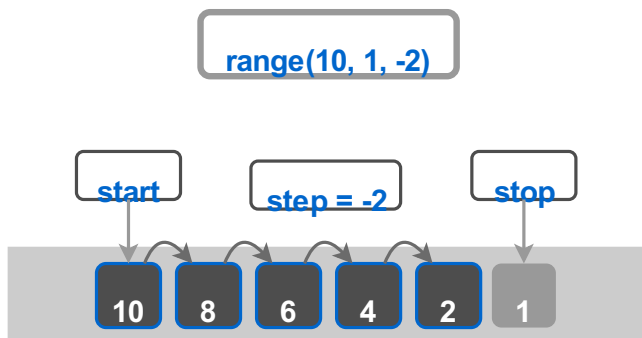


Python Range Reverse or Negative Steps

Python Range Reverse

Python `range()` function generates a sequence of integers. The sequence could be forward or reverse with respect to the values, when the step is positive or negative respectively.

In [Python range\(\)](#) tutorial, we have gone through basic examples of `range()` function, where we have written Python `range()` function with positive steps. In this tutorial, we will learn how to take these steps in the backward or negative direction.



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Python Range with Negative Steps

If we are taking steps in the backward direction, start argument should be greater than stop to generate any elements in the range object. And step should be a negative number.

In the following example, we shall generate a Python Range with sequence of integers starting from 10, decrementing in steps of 2 until 1.

Python Program

```
start = 10
stop = 1
step = -2

for i in range(start, stop, step) :
    print(i)
```

Output

```
10
8
6
4
2
```

Let us try the same program with different start, stop and step values.

Python Program

```
start = 100
stop = 0
step = -10

for i in range(start, stop, step) :
    print(i)
```

Output

```
100
90
80
70
60
50
40
30
20
10
```

Python Range with Negative Steps & Negative Numbers

In the following example, we shall generate a Python Range with sequence of negative integers starting from -1, decrementing in steps of 3 until -20. Please note that our start is greater than end, and step is negative.

Python Program

```
start = -1
stop = -20
step = -3

for i in range(start, stop, step) :
    print(i)
```

Output

```
-1
-4
-7
-10
-13
-16
-19
```

Conclusion

In this [Python Tutorial](#), we learned how to create a range with sequence of elements starting at a higher value and stopping at a lower value, by taking negative steps.

Python Programming

▸ [Python Tutorial](#)

▸ [Install Python](#)

▸ [Install Anaconda Python](#)

▸ [Python HelloWorld Program](#)

▸ [Python Variables](#)

▸ [Python Variable Data Type Conversion](#)

▸ [Python Comments](#)

Control Statements

▸ [Python If](#)

▸ [Python If Else](#)

▸ [Python While Loop](#)

▸ [Python For Loop](#)

Python String

▸ [Python String Methods](#)

▸ [Python String Length](#)

▸ [Python String Replace](#)

▸ [Python Split String](#)

▸ [Python Count Occurrences of Sub-String](#)

▸ [Python Sort List of Strings](#)

Functions

▸ [Python Functions](#)

Python Collections

▸ [Python List](#)

▸ [Python Dictionary](#)

Advanced

▸ [Python Multithreading](#)

Useful Resources

▸ [Python Interview Questions](#)