

Lists (and strings)

Concatenation	<code>my_list = list_1 + list_2</code>
Append to the end	<code>my_list.append(new_element)</code>
Check if in list	<code>element in my_list</code>
Find in list	<code>position = my_list.index(element)</code>
Remove last element	<code>my_list.pop()</code>
Insert element at position	<code>my_list.insert(position, element)</code>
Remove from list (by position)	<code>my_list.pop(position)</code>
Remove from list (by element)	<code>my_list.remove(element)</code>
Sort	<code>my_list.sort()</code>
Reverse order	<code>my_list.reverse()</code>
Count elements	<code>number = my_list.count(element)</code>

The same operations apply to strings, understood as lists of characters.

Sets

Add element	<code>my_set.add(element)</code>
Remove random element	<code>my_set.pop()</code>
Remove specific element	<code>my_set.remove(element)</code>
Add elements from other iterable	<code>my_set.update(iterable)</code>
Union, intersection, difference	<code>new_set = my_set.union(other_set)</code> <code>new_set = my_set.intersection(other_set)</code> <code>new_set = my_set.difference(other_set)</code>

Dictionaries

List of keys or values	<code>keys = my_dict.keys()</code> <code>values = my_dict.values()</code>
List of tuples (key, value)	<code>items = my_dict.items()</code>
Update dictionary (or join two)	<code>my_dict.update({key: value})</code> <code>my_dict.update(other_dict)</code>
Remove item by key	<code>my_dict.pop(key)</code>
Remove last added item	<code>my_dict.popitem()</code>
Copy dictionary	<code>new_dict = my_dict.copy()</code>

List/string slicing

First/last n elements	<code>my_list[:n], my_list[-n:]</code>
From element n to element m, with step s	<code>my_list[n:m:s]</code>

Comprehensions

List comprehension	<code>lc = [n ** 2 for n in range(10) if n % 2 == 0]</code>
Set comprehension	<code>sc = {n ** 2 for n in range(10) if n % 2 == 0}</code>
Dictionary comprehension	<code>dc = {n: n ** 2 for n in range(10) if n % 2 == 0}</code>
Generator comprehension	<code>gc = (n ** 2 for n in range(10) if n % 2 == 0)</code>

Tuples

Count elements	<code>number = my_tuple.count(element)</code>
Element in tuple	<code>element in my_tuple</code>
Find in tuple	<code>position = my_tuple.index(element)</code>



Advanced iterables

Import relevant modules

```
import collections
```

Dictionary with default values

```
def_dict = collections.defaultdict()
```

Dictionary remembering the order of items

```
ord_dict = collections.OrderedDict()
```

Numpy arrays

Relevant modules

```
import numpy as np
```

Itertools module

Import relevant modules

```
import itertools
```

Cycle infinitely through iterable elements

```
itertools.cycle (iterable)
```

Loop through the cumulative sum of the iterable

```
itertools.accumulate([1, 1, 3, 4])
```

Loop through pairwise contiguous elements

```
itertools.accumulate(itertools.pairwise)
```

Cartesian product of iterables

```
itertools.product(iterator_a, iterator_b)
```

All permutations of an iterable

```
itertools.permutations(iterator)
```

Length-r combinations from an iterable

```
itertools.combinations(iterator, r)
```

In the `accumulate()` function's argument, the iterable must contain elements which can be summed together. In other words, it can't have strings and integers at the same time as they can't be summed.



By gonz95alo
cheatography.com/gonz95alo/

Not published yet.
Last updated 18th October, 2022.
Page 2 of 2.

Sponsored by [CrosswordCheats.com](http://crosswordcheats.com)
Learn to solve cryptic crosswords!
<http://crosswordcheats.com>