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# Python Lists

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## Python Collections (Arrays)

There are four collection data types in the Python programming language:

- **List** is a collection which is ordered and changeable. Allows duplicate members.
- **Tuple** is a collection which is ordered and unchangeable. Allows duplicate members.
- **Set** is a collection which is unordered and unindexed. No duplicate members.
- **Dictionary** is a collection which is unordered, changeable and indexed. No duplicate members.

When choosing a collection type, it is useful to understand the properties of that type. Choosing the right type for a particular data set could mean retention of meaning, and, it could mean an increase in efficiency or security.

## List

A list is a collection which is ordered and changeable. In Python lists are written with square brackets.

### Example

Create a List:

```
thislist = ["apple", "banana", "cherry"]  
print(thislist)
```

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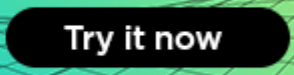
## Example

Change the second item:

```
thislist = ["apple", "banana", "cherry"]  
thislist[1] = "blackcurrent"  
print(thislist)
```

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## The list() Constructor

It is also possible to use the `list()` constructor to make a list. To add an item to the list use `append()` object method. To remove a specific item use the `remove()` object method. The `len()` function returns the length of the list.

## Example

Using the list() constructor to make a List:

```
thislist = list(("apple", "banana", "cherry")) # note the double round-  
brackets  
print(thislist)
```

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## Example

Using the `append()` method to append an item:

```
thislist = list(("apple", "banana", "cherry"))  
thislist.append("damson")  
print(thislist)
```

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## Example

Using the `remove()` method to remove an item:

```
thislist = list(("apple", "banana", "cherry"))  
thislist.remove("banana")  
print(thislist)
```

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## Example

The `len()` method returns the number of items in a list:

```
thislist = list(("apple", "banana", "cherry"))  
print(len(thislist))
```

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# List Methods

Python has a set of built-in methods that you can use on lists.

Method	Description
<u><a href="#">append()</a></u>	Adds an element at the end of the list
<u><a href="#">clear()</a></u>	Removes all the elements from the list
<u><a href="#">copy()</a></u>	Returns a copy of the list
<u><a href="#">count()</a></u>	Returns the number of elements with the specified value
<u><a href="#">extend()</a></u>	Add the elements of a list (or any iterable), to the end of the current list
<u><a href="#">index()</a></u>	Returns the index of the first element with the specified value
<u><a href="#">insert()</a></u>	Adds an element at the specified position
<u><a href="#">pop()</a></u>	Removes the element at the specified position
<u><a href="#">remove()</a></u>	Removes the first item with the specified value
<u><a href="#">reverse()</a></u>	Reverses the order of the list
<u><a href="#">sort()</a></u>	Sorts the list

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