

# Common Operations

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There are some functions which can be applied on all collections. Here we will see details related to `tuple` and `dict` using Python as programming language.

- `in` - check if element exists in the `tuple`
- `in` can also be used on `dict`. It checks if the key exists in the `dict`.
- `len` - to get the number of elements.
- `sorted` - to sort the data (original collection will be untouched). Typically, we assign the result of sorting to a new collection.
- `sum`, `min`, `max`, etc - arithmetic operations. In case of `dict`, the operations will be performed on key.
- There can be more such functions.

```
t = (1, 2, 3, 4) # tuple
```

```
1 in t
```

True

```
5 in t
```

False

```
len(t)
```

4

```
sorted(t, reverse=True)
```

[4, 3, 2, 1]

```
sum(t)
```

10

```
d = {1: 'a', 2: 'b', 3: 'c', 4: 'd'} # dict
```

```
1 in d
```

True

```
5 in d
```

False

```
'a' in d
```

False

```
len(d)
```

4

```
sorted(d) # only sorts the keys
```

```
[1, 2, 3, 4]
```

```
sum(d) # applies only on keys
```

```
10
```