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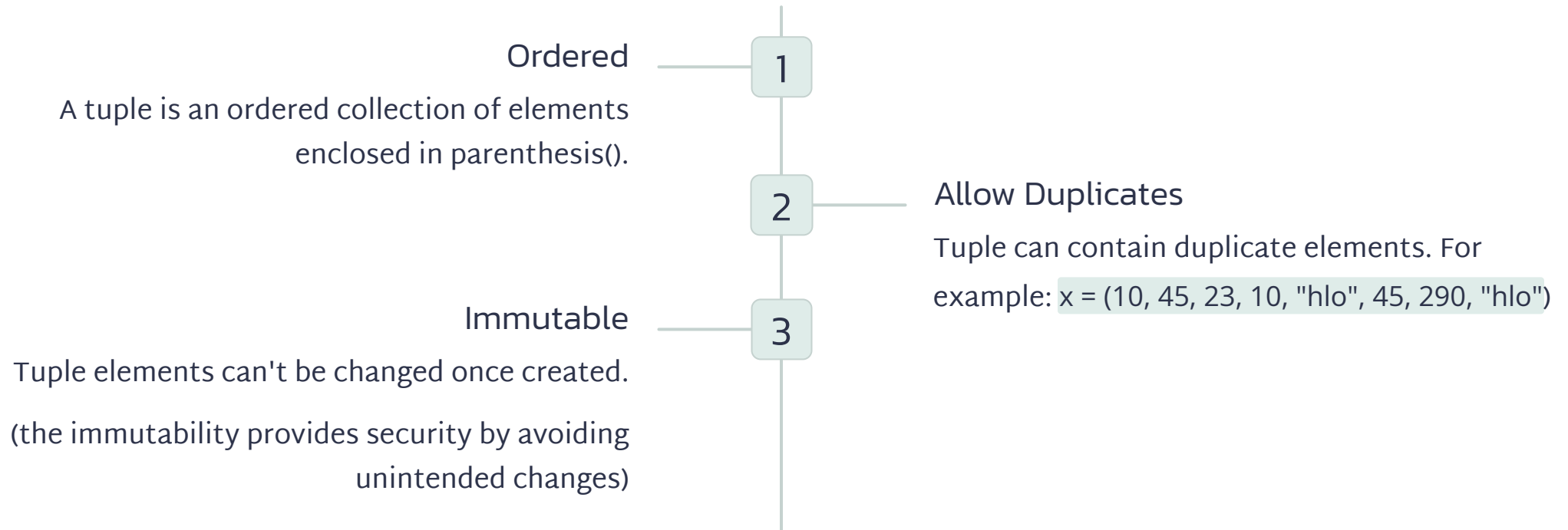
# tuple ()

It is a collection of heterogeneous data that are used in cases where data should remain unchanged for security purpose like multi-threaded programming.

eg:- a = (12,45,"hello", 10.8, True)

(it is heterogeneous: means it contains elements of different data types )

# Tuple Properties



# Example

1

## **Nested List or Tuple**

```
zx = (12,10, "car", [45,34,23],"bus",[10, 100], 300)
```

```
#indexing
```

```
print(zx[3])
```

```
print(zx[3][1])
```

```
#slicing
```

```
print(zx[3][:1])
```

```
#check
```

```
for i in zx:
```

```
    print(zx)
```

(we can write list in between tuple and vice-versa)

2

## **Add elements in tuple by type-casting**

```
a = [12,10, "car", "bus", 300, 5000]
```

```
lt = list(a)
```

```
lt.append(5000)
```

```
xyz = tuple(lt)
```

```
print(xyz)
```

```

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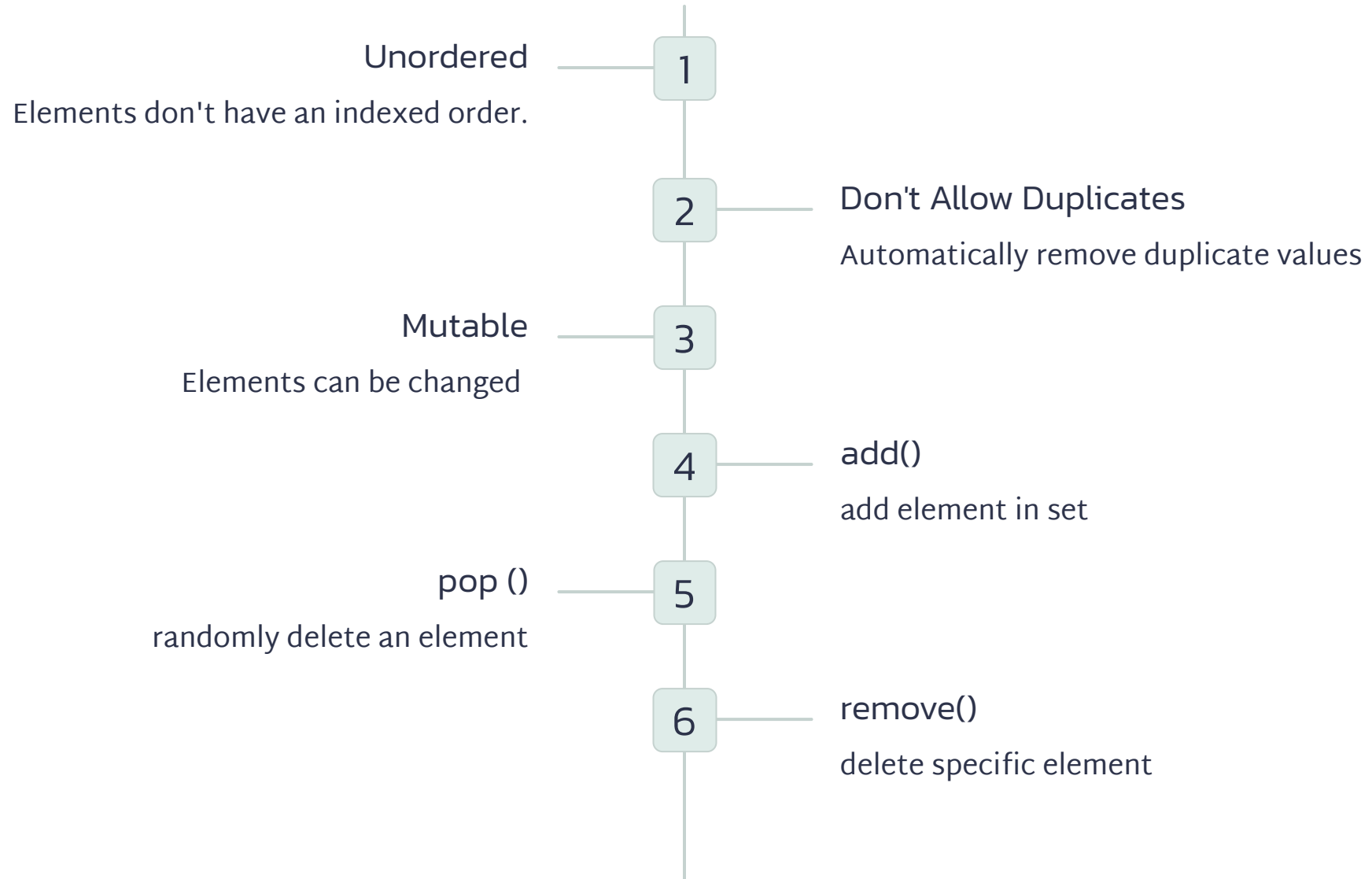
# Set {}

It is a collection of heterogeneous and unchanging objects and contain unique elements.

eg:- a = {12,45,"hello", 10.8, True}

(it is heterogeneous: means it contains elements of different data types )

# Set Properties



# Example

