

## Slicing (List, Tuple, And String)

```
l = [10, 20, 30, 40, 50]
print(l[0:5:2])
print(l[:4])
print(l[2:])
print(l[1:4])
print(l[4:1:-1])
print(l[-1:-6:-1])
print(l[::-1])
print(l[0:5])
print(l[:])
```

```
output: [10, 30, 50]
        [10, 20, 30, 40]
        [30, 40, 50]
        [20, 30, 40]
        [50, 40, 30]
        [50, 40, 30, 20, 10]
        [50, 40, 30, 20, 10]
        [10, 20, 30, 40, 50]
        [10, 20, 30, 40, 50]
```

**l[start: stop: step]:** Given a list with element  
l[start], l[start + step], l[start, 2 \* step].....  
stop is not included (we stop before stop)

```
l1 = [10, 20, 30]
l2 = l1[:]
t1 = (10, 20, 30)
t2 = t1[:]
s1 = "geeks"
s2 = s1[:]
print(l1 is l2)
print(t1 is t2)
print(s1 is s2)
```

```
output: False
        True
        True
```