

## Slicing

```
: test_string = 'I am learning Python'
```

```
test_string[0:7]
```

'I am le'

0 1 2 3 4 5 6  
↑

Stein, How do you jump

```
test_list = ['kiwi', 'apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon']  
print(test_list[3:6])
```

```
['banana', 'lichi', 'strawberry']
```

```
test_list = ('kiwi', 'apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon')  
print(test_list[3:6])  
('banana', 'lichi', 'strawberry')
```

name[ $\downarrow$  start $\downarrow$  index : stop $\downarrow$  index : step $\uparrow$  size]

test-list [3 : 0 : 1]

3, 4, 5

1

0

1

2

3



7

```
test_list = ('kiwi', 'apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon')  
print(test_list[6:3:-1])  
('watermelon', 'strawberry', 'lichi')
```

3 is endindex  
and we never go  
to endindex.

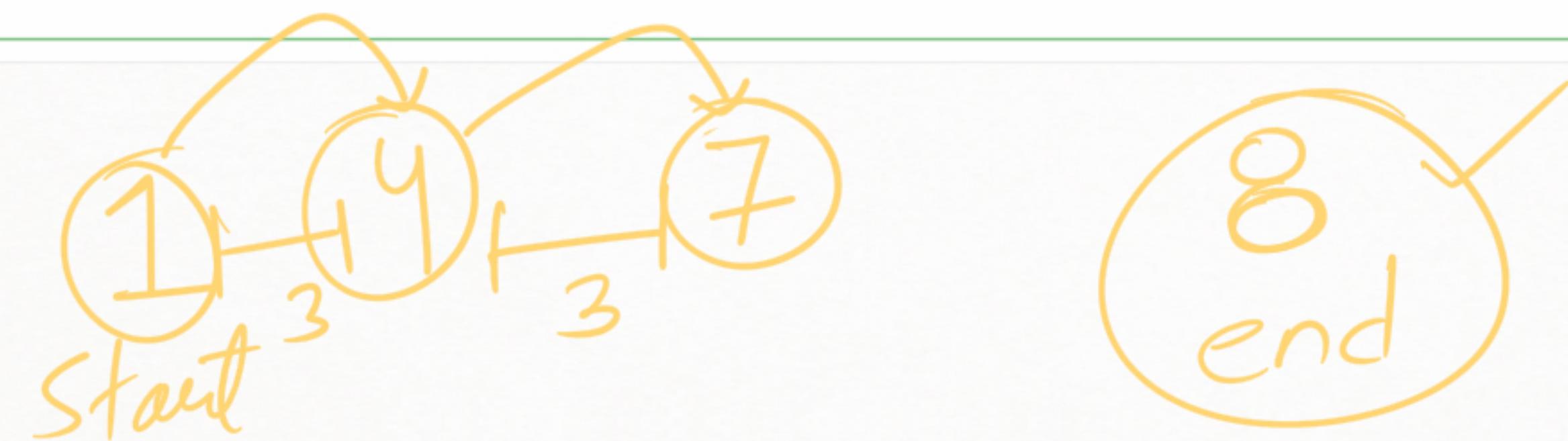
0 1 2 2 4 5 6 7

```
test_list = ('kiwi', 'apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon')
print(test_list[1:6:2])
('apple', 'banana', 'strawberry')
```

start\_index = 1  
end\_index = 6  
step/jump = 2



```
0   1   2   3   4   5   6   7  
test_list = ('kiwi', apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon')  
print(test_list[1:8:3])  
('apple', 'lichi', 'muskmelon')
```



$$\text{?jump} = 3$$

```
test_list = ('kiwi', 'apple', 'mango', 'banana', 'lichi', 'strawberry', 'watermelon', 'muskmelon')  
print(test_list[1:7:3])  
('apple', 'lichi')
```



We can never  
reach end