

python

COLLECTIONS

(CONTAINER DATATYPE)

5

You Must know!





defaultdict



“

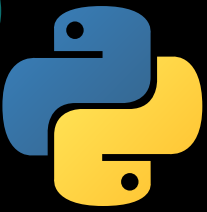
A dictionary subclass that returns a default value when a non-existent key is accessed.

Usage Example:

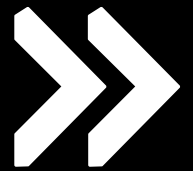
```
from collections import defaultdict

d = defaultdict(int)
d['foo'] += 1
d['bar'] += 1
print(d) # {'foo': 1, 'bar': 1}
print(d.get('baz')) # None
```

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OrderedDict



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A dictionary subclass that remembers the order in which items were added.

Usage Example:

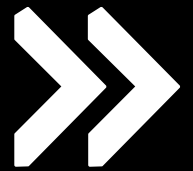
```
from collections import OrderedDict

d = OrderedDict()
d['foo'] = 1
d['bar'] = 2
d['baz'] = 3
print(d) # OrderedDict([('foo', 1), ('bar', 2), ('baz', 3)])
```

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Counter



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A dictionary subclass for counting hashable objects where "element:count" are stored as dictionary <keys: values>.

Usage Example:

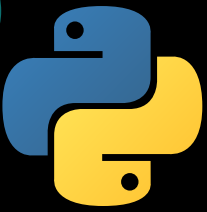
```
from collections import Counter

lst = ['foo', 'bar', 'foo', 'baz', 'foo']
c = Counter(lst)
print(c) # Counter({'foo': 3, 'bar': 1, 'baz': 1})
```

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@ibatulanand

[linkedin.com/in/ibatulanand](https://www.linkedin.com/in/ibatulanand)



namedtuple



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A tuple subclass that allows accessing elements by name and not just by index.

Usage Example:

```
from collections import namedtuple

Person = namedtuple('Person', ['name', 'age', 'gender'])
p = Person('Alice', 30, 'female')

print(p.name) # 'Alice'
```

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@ibatulanand

[linkedin.com/in/ibatulanand](https://www.linkedin.com/in/ibatulanand)



deque



“

A double-ended queue that supports adding and removing elements from both ends with $O(1)$ complexity.

Usage Example:

```
from collections import deque

d = deque([1, 2, 3])
d.append(4)
d.appendleft(0)
print(d) # deque([0, 1, 2, 3, 4])
```

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@ibatulanand

[linkedin.com/in/ibatulanand](https://www.linkedin.com/in/ibatulanand)



#CodeCravings

By IBAtulAnand

@ibatulanand
[linkedin.com/in/ibatulanand](https://www.linkedin.com/in/ibatulanand)