collections

TOTAL Python

> The Collections module extends the types of containers available in Python. A container stores different objects and provides a new way to access and iterate over them.

Counters: It is a dictionary subclass, used to count the occurrences of each element in an iterable, in dictionary form:

```
from collections import Counter

Counter(iterable)
>> Counter({'value': repetitions, ...})
```

DefaultDict: It is a dictionary subclass, used to provide default values for keys that do not exist, without generating an error message. The default value can be of any data type (int, list, etc.) or a lambda function that provides this value directly (lambda: "my value").

```
from collections import defaultdict

my_dict = defaultdict(lambda: "Not found")
```

NamedTuple: returns a tuple where its element positions have a name, plus an index number like traditional tuples.

```
from collections import namedtuple

my_tuple= namedtuple('Person', ['name','age','height'])
person1 = Person("Mark", 39, 5.5)
```

items names