Set

```python
In [45]: A = {1, 2, 3}
         B = set([1,2,3,4,4,4,5,6,7,2])
         print(A)
         print(B)
```

```
{1, 2, 3}
{1, 2, 3, 4, 5, 6, 7}
```

```python
In [46]: A.add(4)
         print(A)
```

```
{1, 2, 3, 4, 5, 6}
```

```python
In [47]: A.discard(4)
         print(A)
```

```
{1, 2, 3, 5, 6}
```

```python
In [48]: A.remove(4)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-48-fe3753ae4a7c> in <module>
----> 1 A.remove(4)

KeyError: 4
```

```python
In [50]: print(B.pop())
         print(B)
```

```
1
{2, 3, 4, 5, 6, 7}
```

```python
In [51]: s2.clear()
         print(s2)
```

```
set()
```

```python
In [62]: A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         A.update(B)
         print(A)
```

```
{1, 2, 3, 4, 5, 6, 7}
```

```python
In [52]: #Union
         A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A | B)
```

```
{1, 2, 3, 4, 5, 6, 7}
```

```python
In [53]: A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A.union(B))
         print(B.union(A))
```

```
{1, 2, 3, 4, 5, 6, 7}
{1, 2, 3, 4, 5, 6, 7}
```

```python
In [54]: # Intersection
         A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A & B)
         print(B & A)
```

```
{3, 4, 5}
{3, 4, 5}
```

```python
In [55]: A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A.intersection(B))
         print(B.intersection(A))
```

```
{3, 4, 5}
{3, 4, 5}
```

```python
In [56]: # Difference
         A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A - B)
         print(B - A)
```

```
{1, 2}
{6, 7}
```

```python
In [57]: A = {1, 2, 3, 4, 5}
         B = {3, 4, 5, 6, 7}
         print(A.difference(B))
```

```python
print(B.difference(A))
```

```
{1, 2}
{6, 7}
```

In [58]:
```python
# Symmetric Difference
A = {1, 2, 3, 4, 5}
B = {3, 4, 5, 6, 7}
print(A ^ B)
print(B ^ A)
```

```
{1, 2, 6, 7}
{1, 2, 6, 7}
```

In [59]:
```python
A = {1, 2, 3, 4, 5}
B = {3, 4, 5, 6, 7}
print(A.symmetric_difference(B))
print(B.symmetric_difference(A))
```

```
{1, 2, 6, 7}
{1, 2, 6, 7}
```

In [60]:
```python
A = set('manzana')

'n' in A
```

Out[60]: True

In [63]:
```python
print(all(A))
print(any(B))
```

```
True
True
```

In [66]:
```python
# Devuelve true si no hay intersección
A = {1, 2}
B = {4, 5, 6}
print(B.isdisjoint(A))
```

```
True
True
```

In [ ]:
```python
print(list(enumerate(A, 1)))
```