

Useful function

```
sorted(a)           Sort a string or a list
    sorted(['b', 'c', 'a'])
    >> ['a', 'b', 'c']
```

Character

```
ord(a)             Return ASCII value of character a
    print(ord('a'))
    >> 97
```

```
chr(n)             Return character of ASCII value n
    print(chr(97))
    >> a
```

String

```
s.upper()          Turn all characters into uppercase characters

    "abcbcd".upper()
    >> 'ABCBD'
```

```
s.lower()          Turn all characters into lowercase characters

    "ABC".lower()
    >> 'abc'
```

```
s.split(a)         Split a string s into a list at substring a

    "abcbcd".split("b")
    >> ['a', 'c', 'd']
```

```
s.join(l)          Joining elements in list l with string s as a
                    joiner

    "--".join(['a', 'b', 'c'])
    >> 'a--b--c'
```

`s.replace(a,b)` Replace every substring a in s with b

```
"abcbd".replace("b","z")
>> 'azczd'
```

`s.index("a")` Find "a" in string s

```
myString = "Position of a character"
myString.index('s')
>> 2
```

`s.isdigit()` Check if s is digit or not

```
"1".isdigit()
>> True
```

List

`l.append(s)` Add an element s into list l

```
l = [0,1]
l.append(2)
print(l)
>> [0, 1, 2]
```

`l = l[::-1]` Reverse order in list l

```
l = [0,1,2]
l = l[::-1]
print(l)
>> [2, 1, 0]
```

`l.pop()` Return the last element in list l

```
l = [0,1]
a = l.pop()
print(a)
>> 1
```

Math

Don't forget to import math if you want to use this library!

`math.pi` Value of pi

```
a = math.pi
print(a)
>> 3.141...
```

`math.ceil(x)` Return the ceiling of x

```
math.ceil(2.5)
>> 3
```

`math.floor(x)` Return the floor of x

```
math.floor(2.5)
>> 2
```

`math.fabs(x)` Return the absolute value of x

```
math.fabs(-2)
>> 2.0
```

`math.sqrt(x)` Return the square root of x

```
math.sqrt(9)
>> 3.0
```

`math.sin(x)` Return sine of x (in radian)

```
print(math.sin(2*math.pi))
>> 0
```

`math.cos(x)` Return cosine of x (in radian)

```
print(math.cos(2*math.pi))
>> 1
```