



## Main data types

**boolean** = True / False  
**integer** = 0  
**float** = 10.01  
**string** = "123abc"  
**list** = [value1, value2, ...]

### Numeric Operators

**+** addition  
**-** subtraction  
**\*** multiplication  
**/** division  
**\*\*** exponent  
**%** modulus  
**//** floor division

### Comparison Operators

**==** equal  
**!=** not equal  
**>** higher  
**<** lower  
**>=** higher or equal  
**<=** lower or equal

### Boolean Operators

**and** logical AND  
**or** logical OR  
**not** logical NOT

### Special characters

**#** comment  
**\n** new line  
**\t** tab  
**\odchar** escape char

### Assignment operators

**=** simple assignment                    **+=**  
**+=** increment assignment            **-=**  
**-=** decrement assignment           **\*=**  
**\*=** multiplication assignment       **/=**  
**/=** division assignment               **//=**  
**//=** floor division assignment       **%=**  
**%=** remainder assignment           **^=**  
**^=** division assignment               **^/=**  
**^/=** floor division assignment       **^/=**

## String operations

**string[i]** retrieves character at position i  
**string[-i]** retrieves last character  
**string[i:j]** retrieves characters in range i to j

### String methods

**string.upper()** returns uppercase string  
**string.lower()** returns lowercase string  
**string.count(x)** counts how many times x appears  
**string.find(x)** position of the first occurrence of x  
**string.replace(x,y)** replaces x with y  
**string.islower()** returns True if all characters are lowercase  
**string.isupper()** returns True if all characters are uppercase  
**string.isalnum()** returns True if all characters are alphanumeric  
**string.isalpha()** returns True if all characters are alphabetic  
**string.isdigit()** returns True if all characters are digits  
**string.index(s)** returns index of substring s in string  
**string.strip(x)** returns a string with leading and trailing characters removed

## List operations

**list = []** defines an empty list  
**list[i] = x** stores x with index i  
**list[i]** retrieves the item with index i  
**list[-i]** retrieves last i item from list  
**list[i:j]** retrieves items in the range i to j  
**list[:i]** retrieves items from i to the end  
**del list[i]** removes the item with index i

### List methods

**list.append(x)** appends x to the end of the list  
**list.extend(L)** appends L to the end of the list  
**list.insert(i,x)** inserts x at i position  
**list.remove(x)** removes the first list item whose value is x  
**list.pop(i)** removes the item at position i and returns its value  
**list.clear()** removes all items from the list  
**list.index(x)** returns the position of the first occurrence of x in a list  
**list.count(x)** returns the number of times x appears in a list  
**list.sort()** sorts items in a list  
**sorted(L)** returns a new list with L items sorted  
**list.reverse()** reverses list elements  
**list.copy()** returns a copy of the list

Legend: x, y = any data values, s = string; n = number; L = List

## Built-in Functions

**print(x, sep="y")** prints x objects separated by y  
**input(x)** prints x and waits for an input that will be returned  
**len(x)** returns the length of x (s or L)  
**min(L)** returns the minimum value in L  
**max(L)** returns the maximum value in L  
**sum(L)** returns the sum of the values in L  
**range(n1,n2,n)** returns a sequence of numbers from n1 to n2 in steps of n  
**abs(x)** returns the absolute value of x  
**round(n1,n)** returns the n1 number rounded to n digits  
**type(x)** returns the type of x (string, float, list ...)  
**str(x)** converts x to a string  
**list(x)** converts x to a list  
**int(x)** converts x to an integer  
**float(x)** converts x to a float  
**bool(x)** converts x to a Boolean value  
**pow(n1,n2)** returns n1 to the power of n2  
**chr(x)** returns the string value of a Unicode code  
**ord(x)** returns the Unicode code of a single-character string  
**map(function, L)** applies function to values in L

## Conditional statements

```
if <condition> :
    <code>
elif <condition> :
    <code>
...
else:
    <code>

if <value> in <list>:
```

### Loops

```
while <condition>:
    <code>

for <variable> in <list>:
    <code>

for <variable> in range(start,stop,step):
    <code>
```

### Loop control statements

**break** finishes loop execution  
**continue** jumps to next iteration  
**pass** does nothing

## Reading and writing files

```
f = open(<path>,"r")
f.read(<size>)
f.readline(<size>)
f.close()

f = open(<path>,"r")
for line in f:
    <code>
f.close()

f = open(<path>,"w")
f.write(<str>)
f.close()
```

## Functions

```
def function(<params>):
    <code>
    return <data> or none
```

## Modules

```
import module
module.function()

from module import *
function()
```

# LS22product Reference Guide

**Yan Bai**



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