```
Parameters
def PrintInfo( name, age, friends ) :
    # Output the values of the string 'name', the number 'age',
    # and the length and all the elements of the list 'friends'
   print()
   print ( "My name is %s, I am %i years old, and I have %i friends: " % \
           ( name, age, len( friends ) ),
           end = "" )
    for friend in friends :
        print( " %s" % ( friend ), end = "" )
   print()
>>> PrintInfo( "Ann", 23, [ "Tim", "Bob", "Sue" ] )
My name is Ann, I am 23 years old, and I have 3 friends: Tim Bob Sue
>>> PrintInfo( name = "Ann", age = 23, friends = [ "Tim", "Bob", "Sue" ] )
My name is Ann, I am 23 years old, and I have 3 friends: Tim Bob Sue
>>> PrintInfo( age = 23, friends = [ "Tim", "Bob", "Sue" ], name = "Ann" )
My name is Ann, I am 23 years old, and I have 3 friends: Tim Bob Sue
```

```
def PrintInfo( name = "PRIVATE", age = 40, friends = [ ] ) :
   # Output the values of the string 'name', the number 'age',
   # and the length and all the elements of the list 'friends'
   print()
   print ( "My name is %s, I am %i years old, and I have %i friends: " % \
          ( name, age, len( friends ) ),
          end = "" )
   for friend in friends :
       print( " %s" % ( friend ), end = "" )
   print()
#-----
>>> PrintInfo( "Ann", 23, [ "Tim", "Bob", "Sue" ] )
My name is Ann, I am 23 years old, and I have 3 friends: Tim Bob Sue
>>> PrintInfo( "Ann", 23 )
My name is Ann, I am 23 years old, and I have 0 friends:
>>> PrintInfo( "Ann" )
My name is Ann, I am 40 years old, and I have 0 friends:
>>> PrintInfo()
My name is PRIVATE, I am 40 years old, and I have 0 friends:
>>> PrintInfo( age = 18 )
My name is PRIVATE, I am 18 years old, and I have 0 friends:
>>> PrintInfo( name = "Bob", friends = [ "Ann", "Ned" ] )
My name is Bob, I am 40 years old, and I have 2 friends: Ann Ned
```

```
Parameters
def Average ( *numbers ) :
   # The average of all parameters in the tuple 'numbers',
   # or 0.0 if there are no such parameters
   if numbers == ( ) :
      return 0.0
   else :
      return sum( numbers ) / len( numbers )
                                                                      print()
#-----
                                                                      print()
                                                                     print()
>>> Average( 2, 3 )
2.5
>>> Average( 1, 2, 3, 4, 5 )
3.0
>>> Average( 7 )
                                                                      $ printargs
7.0
>>> Average()
0.0
                                                                      argv[ 1 ] = So
                                                                      arqv[2] = Long
                                                                      argv[ 1 ] = 1
                                                                      argv[2] = 2
                                                                      argv[3] = 3
                                                                      argv[ 4 ] = hello
                                                                      argv[5] = 4567
```

```
#!/usr/bin/env python3
# Command-Line Programs and Arguments
# This program just outputs its command-line arguments
# ( the program is stored in the executable file 'printargs' )
from sys import argv
print( "argv =", argv )
for i in range( len( argv ) ) :
   print( "argv[ %i ] = %s" % ( i, argv[ i ] ) )
arqv = ['./printargs']
argv[ 0 ] = ./printargs
#-----
$ printargs So Long Marianne
argv = ['./printargs', 'So', 'Long', 'Marianne']
argv[ 0 ] = ./printargs
arqv[3] = Marianne
$ printargs 1 2 3 hello 4567
argv = ['./printargs', '1', '2', '3', 'hello', '4567']
argv[ 0 ] = ./printargs
```