

Inspecting Lists (2)

```
#-----
def LongestString( strings ) :

    # The longest item in the string list 'strings',
    # or "" if this list is empty

    longeststring = ""

    for string in strings :
        if len( string ) > len( longeststring ) :
            longeststring = string

    return longeststring

#-----

def FirstItem( s ) :

    # The first item in sequence 's', or 'None' if this sequence is empty

    for item in s :
        return item

    return None

#-----

def AllEqual( s ) :

    # Are all items in sequence 's' equal to one another?

    firstitem = FirstItem( s )

    if firstitem == None :
        return True

    for item in s :
        if item != firstitem :
            return False

    return True

#-----

def IsSorted( s ) :

    # Is sequence 's' sorted in ascending order?

    prev = None

    for this in s :
        if prev != None and this < prev :
            return False
        prev = this

    return True

#-----
```

```
>>> LongestString( [ "The", "Force", "is", "strong", "with", "this", "one" ] )
'strong'

>>> LongestString( [ "abc", "def", "ghi" ] )
'abc'

>>> LongestString( [ ] )
''

>>> FirstItem( [ 7, 2, 4, 3 ] )
7

>>> FirstItem( "floccipaucinihilipilification" )
'f'

>>> AllEqual( "aaaaa" )
True

>>> AllEqual( [ 1, 1, 1, 2, 1 ] )
False

>>> AllEqual( [ 7 ] )
True

>>> AllEqual( [ ] )
True

>>> IsSorted( [ "ann", "buys", "cream", "doughnuts", "every", "friday" ] )
True

>>> IsSorted( [ 1, 2, 3, 3, 4 ] )
True

>>> IsSorted( [ 1, 2, 3, 2, 4 ] )
False

>>> IsSorted( [ 5 ] )
True

>>> IsSorted( [ ] )
True
```