Some Python list methods

In the "Python: Introduction for Programmers" course we describe just a few methods of lists. This more complete document is for reference and interest; you do not need to memorise these for the course.

```
These methods return a value and do not change the list.
                       How many times does value appear in the list?
count (value)
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.count(2)
                       >>> numbers
                       [1, 2, 3, 1, 2, 3]
                       Where is the first place value appears in the list?
index(value)
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.index(2)
                       >>> numbers[1]
index(value, start)
                       Where is the first place value appears in the list at or after start?
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.index(2,1)
                       >>> numbers.index(2,2)
                       >>> numbers[4]
These methods change the list and do not return any value.
append(value)
                       Stick a single value on the end of the list.
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.append(4)
                       >>> numbers
                       [1, 2, 3, 1, 2, 3, 4]
extend(list)
                       Stick several values on the end of the list.
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.extend([5,6,7])
                       >>> numbers
                       [1, 2, 3, 1, 2, 3, 4, 5, 6, 7]
remove(value)
                       Remove the first instance of a value from the list.
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.remove(2)
                       >>> numbers
                       [1, 3, 1, 2, 3]
                       Insert value so that it gets index index and move everything up one to make room.
insert(index, value)
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.insert(3, 5)
                       >>> numbers
                       [1, 2, 3, 5, 1, 2, 3]
                       >>> numbers.insert(0, 6)
                       >>> numbers
                       [6, 1, 2, 3, 5, 1, 2, 3]
reverse()
                       Reverse the order of the list's items.
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.reverse()
                       >>> numbers
                       [3, 2, 1, 3, 2, 1]
                       Sort the items in the list.
sort()
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.sort()
                       >>> numbers
                       [1, 1, 2, 2, 3, 3]
This method, exceptionally returns a value (from the list) and changes the list itself.
pop()
                       Removes the last item from the list and returns it.
                       >>> numbers = [1, 2, 3, 1, 2, 3]
                       >>> numbers.pop()
                       >>> numbers
                       [1, 2, 3, 1, 2]
```