

Q1 Create a list and extract the last value to the beginning of the list.

For example, [1, 3, 2, 9, 7, 8] → [8, 1, 3, 2, 9, 7]

Ans:

```
list1 = [1, 3, 2, 9, 7, 8]
```

```
list1.insert(0,list1.pop())
```

Q2 Apply a sequence slice(2) on the list created above.

For example, Sequence slice →[start:end:step]

Ans:

```
print(list1)
list1[::-2]      # = [8:5:2]
[8, 1, 3, 2, 9, 7]
[8, 3, 9]
```

Q3 What's the different between list2 and list3?

Ans:

List2 = list1[:] → create a new duplicate (update)

List3 = list1 → Assigned list1 to list3

```
: list1 = [1, 3, 2, 9, 7, 8]
print('original list1: ',list1)
list2 = list1[:]          # copy list1 into a new list 'list2', so it wont change with list1
list3 = list1              # tag list1 as list3, so list3 changes along when list1 edited
list1.sort()

print('sorted list1: ',list1)
print('list2: ',list2)
print('list3: ',list3)

original list1: [1, 3, 2, 9, 7, 8]
sorted list1: [1, 2, 3, 7, 8, 9]
list2: [1, 3, 2, 9, 7, 8]
list3: [1, 2, 3, 7, 8, 9]
```

Q4 How to update the x in list4?

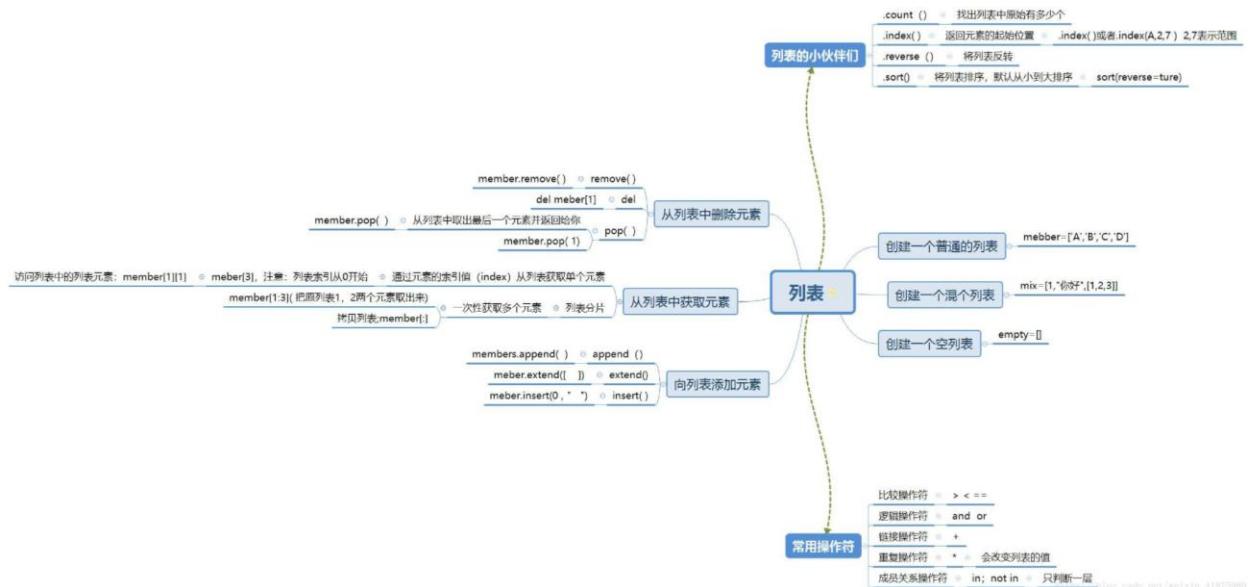
- `list4 = [12, [5, 2, ['x']], 5, 225, 18]`

Ans:

```
list4 = [12, [5, 2, ['x']], 5, 225, 18]
list1[1][2][0] = 'something new'
print(list1)
```

```
[12, [5, 2, ['something new']], 5, 225, 18]
```

Summary:



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