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Exercise 3

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Exercise 3

34/34 points (graded)

ESTIMATED TIME TO COMPLETE: 13 minutes

Note that you will have to answer all questions before you can click the Check button.

For each of the expressions below, specify its type and value. If it generates an error, select type 'NoneType' and put the word 'error' in the box for the value. If it would be a function, select type 'function' and put the word 'function' in the box for the value.

If the method returns `None` , select type 'NoneType' and put the word 'None' in the box for the value.

Assume we've made the following assignments:

```
> listA = [1, 4, 3, 0]
> listB = ['x', 'z', 't', 'q']
```

You may want to refer to the [Python Library Reference](#) to learn about list methods. Assume these calls appear one after another (so if the list is modified in a question, that modification stays for subsequent questions).

1. `listA.sort`

function



function



2. `listA.sort()`

NoneType



None



3. `listA`

list



[0, 1, 3, 4]



4. `listA.insert(0, 100)`

NoneType



None



5. `listA.remove(3)`

NoneType



None



6. `listA.append(7)`

NoneType



None



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7. `listA`

`list` ✓

`[100, 0, 1, 4, 7]` ✓

8. `listA + listB`

`list` ✓

`[100, 0, 1, 4, 7, 'x', 'z', 't', 'q']` ✓

9. `listB.sort()`

`listB.pop()`

`string` ✓

`'z'` ✓

10. `listB.count('a')`

`int` ✓

`0` ✓

11. `listB.remove('a')`

`NoneType` ✓

`error` ✓

12. `listA.extend([4, 1, 6, 3, 4])`

`NoneType` ✓

`None` ✓

13. `listA.count(4)`

`int` ✓

`3` ✓

14. `listA.index(1)`

`int` ✓

`2` ✓

15. `listA.pop(4)`

`int` ✓

`7` ✓

16. `listA.reverse()`

NoneType



None



17. `listA`

list



[4, 3, 6, 1, 4, 4, 1, 0, 100]



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Exercise 3

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Topic: Lecture 5 / Exercise 3

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?	Submit button doesn't work As self explanatory as possible. Not even through different browser.	2
?	There is a problem with the exercise Why isn't this exercise working, it gives me this message 'Could not format HTML for problem. Contact course staff in the discussion...	9
?	Why so many NoneType why does listA.sort() return NoneType instead of [0,1,3,4]	3
?	How come this does not return None? listB.count('a') Why does the above return integer and not None.	2
?	Type of method Any explanation (couldn't find one in the lecture or online) about why the type of a method is NoneType? Is it just because it doesn't...	7

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