1. What exactly is []?

List

1. In a list of values stored in a variable called spam, how would you assign the value 'hello' as the third value? (Assume [2, 4, 6, 8, 10] are in spam.)

spam[2]=’Hello’

Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

1. What is the value of spam[int(int('3' \* 2) / 11)]?

d

1. What is the value of spam[-1]?

d

1. What is the value of spam[:2]?

[‘a’,’b’]

Let's pretend bacon has the list [3.14, 'cat,' 11, 'cat,' True] for the next three questions.

1. What is the value of bacon.index('cat')?

1

1. How does bacon.append(99) change the look of the list value in bacon?

[3.14, 'cat', 11, 'cat', True, 99]

8. How does bacon.remove('cat') change the look of the list in bacon?

[3.14, 11, 'cat', True]

9. What are the list concatenation and list replication operators?

The operator for list concatenation is +, while the operator for replication is \*

10. What is difference between the list methods append() and insert()?

append() adds values only to the end of a list, insert() adds them anywhere in the list.

11. What are the two methods for removing items from a list?

del and remove()

12. Describe how list values and string values are identical.

* Both can be passed to len()
* have indexes and slices
* be used in for loops
* be concatenated or replicated
* can be used with the in and not in operators.

13. What's the difference between tuples and lists?

|  |  |
| --- | --- |
| Lists | Tuples |
| Mutable | Non mutable |
| Values can be added,removed and changed | Values cannot be changed at all |
| Written using square brackets, [] | Written using square parentheses ,() |

14. How do you type a tuple value that only contains the integer 42?

(42,)

15. How do you get a list value's tuple form? How do you get a tuple value's list form?

a list value's tuple form- tuple()

a tuple value's list form – list()

16. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?

They contain references to list values

17. How do you distinguish between copy.copy() and copy.deepcopy()?

copy.deepcopy() will duplicate any lists inside the list while copy.copy() will not.