1. What exactly is []?

It is the empty list value with no items in it

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)]?

Spam[int(int(33/11)]= spam[3] = d

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

Returns last value which is d

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

Returns first 2 values as list - [‘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?

List concatenation operator is +

List replication operator is \*

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

Append() will add the values to the end of list and insert() can be used to add values based on index at 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 have indexes, slices and also can be looped and concatenated and replicated and used with in and not operators. Also can be passed to len()

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

Lists are mutable means they can be modified by adding or removing the items in it after declared where as tuples are immutable and they can’t be changed . List can be defined as [] and tuples as ()

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?

Tuple() and list() functions

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

They contains references to list values

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

First one will do the shallow copy of the list and other will do the deep copy of a list by duplicating any lists inside the list