1. What exactly is []?

Empty list

2. 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.

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

d

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

d

5. 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.

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

1

7. 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,99]

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

The operator for list concatenation is +, while the operator for replication is \*. (This is the same as for strings.)

list\_1=[1,2,3]

list\_2=[4,5,6]

list\_1+list\_2=[1,2,3,4,5,6] – CONCATENATION

list\_2\*list\_2=[4,5,6,4,5,6] – REPLICATION

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

While append() will add values only to the end of a list, insert() can add them anywhere in the list.

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

The del statement and the remove() method are two ways to remove values from a list

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

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

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

Tupple is immutable – ()

List is mutable – []

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

a=(42,)

print(type(a))

Output will be tuple

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

With list() & tuple() functions

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

Reference to list values

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

The copy.copy() function will do a shallow copy of a list, while the copy.deepcopy() function will do a deep copy of a list. That is, only copy.deepcopy() will duplicate any lists inside the list.