1. What exactly is []?

It is an 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?

List concatenation occurs when two or more lists are added together to form one single list containing values from all the individual lists. This is normally done using the + sign.

List replication occurs when values inside a list are repeated n number of times. This is done using the \* sign.

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

Append() add the new value to the end of the list while insert() adds the value at the index specified in the method.

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

Remove()

Pop()

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

Lists and strings are both iterables.

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

Tuple are immutable and uses the () symbols

Lists are mutable and uses the [] symbols

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

(40)

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

tuple([1,2,3])

list((1,2,3))

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()?

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.