1. What exactly is []?

Ans: The empty list value, which is a list value that contains no items.

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.).

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

Ans: spam[2] = 'hello'

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

Ans: d

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

Ans:d

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

Ans: Ans: ['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')?

Ans: 1

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

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

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

Ans: [3.14, 11, 'cat', True]

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

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

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

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

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

Ans: The methods are remove(), pop().remove() helps to remove the very first given element matching from the list. The pop() method removes an element from the list based on the index given.

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

Ans: Lists are similar to strings, which are ordered collections of characters

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

Ans: One of the most important differences between list and tuple is that list is mutable, whereas a tuple is immutable. This means that lists can be changed, and tuples cannot be changed.

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

Ans: (42,) (The trailing comma is mandatory.)

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

Ans: The tuple() and list() functions, respectively

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

Ans: Variables will contain references to list

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

Ans: 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.