1. What exactly is []?

Ans- empty 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.)

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- 3

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

Ans- ‘d’

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

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- + and \*

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

Ans- 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- del statement and the remove().

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

Ans- Both list and string can be passed to len(), have indexes and slices, be used in for loops, be concatenated

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

Ans- Lists are mutable. Tuples are immutable Also, tuples are written using parentheses, ( and ), while lists use the square brackets, [ and ].

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

Ans- (42,)

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- They contain references to list values.

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.