

1. What exactly is []?

It is an empty list. It is used to add values in a loop after which it will have values inside it.

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 = [2,4,6,8,10]

Spam.append('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?

Bacon = [3.14, 'cat', 11, 'cat', True, 99]

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

Bacon = [3.14, 11, 'cat', True, 99]

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

The operator for

Concatenation - +

Replication - *

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

Append() adds the element at the end of the list.

Insert() inserts the element at the specified index in a list.

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

List.remove()

Del statement.

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

Strings and lists are identical because both are sequence of characters, which can be accessed by its index. The only difference is that string contain only string characters, whereas a list can hold values of any datatype.

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

Tuples are immutable whereas lists are mutable.

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

(42,). The trailing comma specifies it only has 42.

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

Tuple(list)

List(tuple)

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

The references to list values. That is why it is referred using indexes.

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

Deepcopy will duplicate any list inside a list, whereas copy is a shallow copy which only copies values.