1. What exactly is []?

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.)

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

spam.insert(3,"hello")

spam

[2, 4, 6, 'hello', 8, 10]

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

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

[3]

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

‘d’

1. 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.

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

1

1. 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]

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

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

spam=['a', 'b', 'c', 'd']

concat=bacon+spam

[3.14, 11, 'cat', True, 99, 'a', 'b', 'c', 'd']

Replicate=spam\*3

Replicate

['a', 'b', 'c', 'd', 'a', 'b', 'c', 'd', 'a', 'b', 'c', 'd']

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

spam.append("hello")

spam

['a', 'b', 'c', 'd', 'hello']

Append() – append the items in the end of the list

spam.insert(2,"insert")

spam

['a', 'b', 'insert', 'c', 'd', 'hello']

Insert()-insert the item in index in the list

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

Spam=['a', 'b', 'insert', 'c', 'd', 'hello']

spam.pop(3)

spam

['a', 'b', 'insert', 'd', 'hello']

spam.remove('hello')

spam

['a', 'b', 'insert', 'd']

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

Both have length and index

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

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

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

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

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