1. What exactly is []?

**Empty list Value**

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]=’hello’**

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’\*2=’33’**

**int’33’ = 33**

**int(33/110 = 3**

**The third index is ‘d’**

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]

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

**+ and \***

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

**Append adds the value after last index, For insert we have to declare an index**

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

**Del, remove()**

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

**Both have index and can be edited**

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

**Lists are mutable and tuples are unmutable**

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

**My\_tuple = (42,)**

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

**tuple() and list()**

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

**References to list values**

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

**copy.copy() copies only the reference values**

**copy.deepcopy() copies the entire list**