1. What exactly is []?

Its a list - brackets of an empty list.

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.insert(2, '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?

```
[3.14, 'cat', 11, 'cat', True, 99]
```

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

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[3.14, 11, 'cat', True, 99]
```

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

concat:- +; replicate: *

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

append - adds element to the list in its last position

insert - add element to the list in the desirable position, we specify it as a first argumnet in the method

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

.remove()

.pop()

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

List and strings elements are ordered collections of characters, wwhere each value(element) is specified by an index.

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

Tuples are unmutable - cannot be changed.

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

x = (42,)

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

list(x), tuple(x)

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()?