1. What exactly is []?

**Ans:** 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.)

**Ans:** spam[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)]?

**Ans:** ‘d’

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

**Ans:** ‘d’

5. 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.

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

**Ans:** 1

7. How does bacon.append(99) change the look of the list value in bacon?

**Ans:** [3.14, 'cat,' 11, 'cat,' True,99]

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

**Ans:** [3.14, 11, 'cat,' True]

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

**Ans:** + is operator for list concatenation and \* is for list replication.

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

**Ans:** append() adds value at the end of list while insert() can add value anywhere in the list depending upon index provided.

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

**Ans:** remove() and del statement

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

**Ans:** they can be concatenated, replicated, used in for loops and have indexes.

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

**Ans:** Lists are mutable and Tuples are immutable.

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

**Ans:** (42,)

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

**Ans:** tuple() and list() functions respectively.

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

**Ans:** They contain references to list values.

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

**Ans:** copy.copy() function will do a shallow copy of a list, while the copy.deepcopy() function will do a deep copy of a list. That is, only copy.deepcopy() will duplicate any lists inside the list.