1. What exactly is []?

**Ans**: This is an empty list. This has no items in 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.)

**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, 99]

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

Ans: The list concatenation operator is ‘ **+** ‘. List replication operator is ‘ **\*** ‘.

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

**Ans**: **append()** will add the value to the end of the list. **insert()** can add a value anywhere in the list.

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

**Ans**: **remove()** and **pop()**

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

**Ans**: List and string values can be passed to len() function, can be sliced. We can iterate between list items and string characters.

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

**Ans**: Tuples are immutable and tuple values are bounded by **().** Lists are mutable and list values are bounded by **[]**.

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:** The tuple() and list() functions, respectively are used to convert a list to tuple and vice versa

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() simply stores the reference of the object. copy.deepcopy() makes a copy of the values of the object.