1. What exactly is []?

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[3]="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)list concatenation=+ and list replication=\*

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

Ans)append():The append adds the value at the end of the list

Insert():The insert takes two arguments,1st position for index and the second for the value to be added in the list.

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

Ans)remove() and del()

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

Ans)The list values and string values both are sequences.

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

Ans)Tuples are immutable and enclosed in parenthesis, lists are mutable and are enclosed in square bracket

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

Ans)a=(42,)

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

Ans)list value to tuple form by changing the [] to() and tiple value form by changing () to []

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

Ans)varibles contains strings or integer value

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