1. What exactly is []?

Its empty list. This is used to initialise 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[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.

Your list is wrong, it has to be [3.14, 'cat', 11, 'cat', True]

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?

Concatenation : +

Replication : *

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

Append adds element only at the end and insert can be used at any existing place in a list.

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

remove(), pop(),clear()

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

Values in Both are sequently added.

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

Tuples is immutable and list is mutable. Tuple uses '()' brackets and list uses '[]' brackets

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

A = (42,)

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

How do you get a list value's tuple form? ———> using tuple() keyword

How do you get a tuple value's list form? ———-> using list[] keyword

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

Variables will contain references to list values rather than list values themselves.

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

copy().copy() - this method will create object and insert reference for nested values

copy(),deepcopy() - This method will create object and insert values directly recursively.