

1. What exactly is []?

Ans:- [] is a 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.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)]?

Ans:- ['a', 'b', 'c', '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:- list concatenation and list replication operators are '+' and '*'.

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

Ans:- append() method appends new input element at the end of the list where as insert() method is to insert element at required position of the list.

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

Ans:- 1)remove()

2)pop()

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

Ans:- As list values were stored inside the [] and lists can store any data type.

String values were stored inside the "" and can stores only string data type.

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

Ans:- tuples are immutable where as lists are mutable.

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

Ans:- tuple = (42)

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

Ans:- We can get a list values in tuple form by list comprehension and tuple values in list form by tuple() method.

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

Ans:- variables will contain references to list values.

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

Ans:- `copy.copy()` method copies the references into new one where as `copy.deepcopy` method copies and inserts elements into the new one.
