

1. What exactly is []?

ANS- This is used to create a list in python.

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', 'c'

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 operator- '+'

List replication operators- '*'

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

ANS- append() function adds the item at the end of list always. It takes 1 argument.

insert() function can add the item to any index in the list. It takes 2 arguments, item and index.

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- In List and string both, the items are indexed starting from 0 to n, for n number of items. And in both a single item can be retrieved by using the index.

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

ANS- Lists are mutable meaning their values can be changed, but tuples cannot be changed once they have been created.

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

ANS- t=(42)

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

ANS- List to tuple- `l=[1,2]`

`tuple(l)`

Tuple to list - `t=(1,2)` ; `list(t)`

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

ANS-

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

ANS-