1. What exactly is []?

Ans: A list is a mutable Python container, to create a list, the elements are placed inside square brackets []

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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.)

Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

Ans: spam = ['a', 'b', “hello”, 'd']

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3. What is the value of spam[int(int('3' \* 2) / 11)]?

Ans: 8

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4. What is the value of spam[-1]?

Ans:10

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5. What is the value of spam[:2]?

Let's pretend bacon has the list [3.14, 'cat,' 11, 'cat,' True] for the next three questions.

Ans:[2,4]

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6. What is the value of bacon.index('cat')?

Ans:1

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7. How does bacon.append(99) change the look of the list value in bacon?

Ans: [3.14, 'cat', 11, 'cat', True, 99]

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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: We can use the operators + and \* to concatenate and replicate are lists.

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

Ans: append () command insert the data at the end of the list & Insert () command insert the data at given index number

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

Ans: list.clear() & list.remove()

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

Ans: List and string both are used to store value /data and both are sequence.

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

Ans: Lists are mutable & Tuples are immutable

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

Ans: tuple = (42)

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

Ans: list data is the input list to create a list of tuples, list and tuple is a predefined function

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

Ans: A list is a value that contains multiple values in an ordered sequence. The term list value refers to the list itself, which is a value that can be stored in a variable or passed to a function like any other value), not the values inside the list value.

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

Ans: copy.copy() creates another reference to each int, while copy.deepcopy() copies the int instance. But copying the int instance simply returns another reference to the same instance. Its Seems like the two functions should do precisely the same steps.

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