

Assignment 2: Python Basics

- Question 1.** What is the value of `spam[int(int('3' * 2) / 11)]`?
- Question 2.** What is the value of `spam[-1]`?
- Question 3.** What is the value of `spam[:2]`?
- Question 4.** Let's pretend `bacon` has the list `[3.14, 'cat,' 11, 'cat,' True]` for the next three questions.
- Question 5.** What is the value of `bacon.index('cat')`?
- Question 6.** How does `bacon.append(99)` change the look of the list value in `bacon`?
- Question 7.** How does `bacon.remove('cat')` change the look of the list in `bacon`?
- Question 8.** What are the list concatenation and list replication operators?
- Question 9.** What is difference between the list methods `append()` and `insert()`?
- Question 10.** What are the two methods for removing items from a list?
- Question 11.** Describe how list values and string values are identical.
- Question 12.** What's the difference between tuples and lists?
- Question 13.** How do you type a tuple value that only contains the integer 42?
- Question 14.** How do you get a list value's tuple form? How do you get a tuple value's list form?
- Question 15.** Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?
- Question 16.** How do you distinguish between `copy.copy()` and `copy.deepcopy()`?
- Question 17.** What does an empty dictionary's code look like?
- Question 18.** What is the value of a dictionary value with the key 'foo' and the value 42?
- Question 19.** What is the most significant distinction between a dictionary and a list?
- Question 20.** What happens if you try to access `spam['foo']` if `spam` is `{'bar': 100}`?
- Question 21.** If a dictionary is stored in `spam`, what is the difference between the expressions 'cat' in `spam` and 'cat' in `spam.keys()`?
- Question 22.** If a dictionary is stored in `spam`, what is the difference between the expressions 'cat' in `spam` and 'cat' in `spam.values()`?
- Question 23.** What is a shortcut for the following code?
- ```
if 'color' not in spam:
 spam['color'] = 'black'
```
- Question 24.** How do you "pretty print" dictionary values using which module and function?