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1. How are Python dictionaries different from Python lists?
- ☒ Python lists maintain order and dictionaries do not maintain order

☐ Python dictionaries are a collection and lists are not a collection

☐ Python lists can store strings and dictionaries can only store words

☐ Python lists store multiple values and dictionaries store a single value
2. How are Python dictionaries different from Python lists?
- ☒ Python lists are indexed using integers and dictionaries can use strings as indexes

☐ Python dictionaries are a collection and lists are not a collection

☐ Python lists store multiple values and dictionaries store a single value

☐ Python lists can store strings and dictionaries can only store words
3. What is a term commonly used to describe the Python dictionary feature in other programming languages?
- ☒ Associative arrays

☐ Lambdas

☐ Closures

☐ Sequences

4. What would the following Python code print out?

```
stuff = dict()
print(stuff['candy'])
```

- ☒ The program would fail with a traceback
- ☐ candy
- ☐ 0
- ☐ -1

5. What would the following Python code print out?

```
stuff = dict()
print(stuff.get('candy', -1))
```

- ☒ -1
- ☐ 0
- ☐ 'candy'
- ☐ The program would fail with a traceback

6. (T/F) When you add items to a dictionary they remain in the order in which you added them.

- ☒ False
- ☐ True

7. What is a common use of Python dictionaries in a program?

- ☒ Building a histogram counting the occurrences of various strings in a file
- ☐ Splitting a line of input into words using a space as a delimiter
- ☐ Computing an average of a set of numbers
- ☐ Sorting a list of names into alphabetical order

8. Which of the following lines of Python is equivalent to the following sequence of statements assuming that counts is a dictionary?

```
if key in counts:
    counts[key] = counts[key] + 1
else:
    counts[key] = 1
```

- ☐ counts[key] = counts.get(key,-1) + 1
- ☐ counts[key] = (counts[key] * 1) + 1
- ☐ counts[key] = key + 1
- ☒ counts[key] = counts.get(key,0) + 1
- ☐ counts[key] = (key in counts) + 1

9. In the following Python, what does the for loop iterate through?

```
x = dict()
...
for y in x :
    ...
```

- ☒ It loops through the keys in the dictionary
- ☐ It loops through the integers in the range from zero through the length of the dictionary
- ☐ It loops through all of the dictionaries in the program
- ☐ It loops through the values in the dictionary

10. Which method in a dictionary object gives you a list of the values in the dictionary?

- ☒ values()
- ☐ all()
- ☐ items()
- ☐ keys()
- ☐ each()

11. What is the purpose of the second parameter of the get() method for Python dictionaries?

- ☒ To provide a default value if the key is not found
- ☐ An alternate key to use if the first key cannot be found
- ☐ The value to retrieve
- ☐ The key to retrieve