

Chapter 9

Question 1

How are Python dictionaries different from Python lists?

- ☐ 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
 - ☒ Python lists maintain order and dictionaries do not maintain order
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Question 2

What is a term commonly used to describe the Python dictionary feature in other programming languages?

- ☐ Sequences
 - ☒ Associative arrays
 - ☐ Closures
 - ☐ Lambdas
-

Question 3

What would the following Python code print out?

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

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

Question 4

What would the following Python code print out?

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

- ☐ 0
- ☒ -1

- ☐ The program would fail with a traceback
 - ☐ 'candy'
-

Question 5

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

- ☒ False
 - ☐ True
-

Question 6

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

- ☐ Computing an average of a set of numbers
 - ☐ Sorting a list of names into alphabetical order
 - ☒ 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
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Question 7

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[key] * 1) + 1
 - ☐ counts[key] = (key in counts) + 1
 - ☐ counts[key] = key + 1
 - ☐ counts[key] = counts.get(key,-1) + 1
 - ☒ counts[key] = counts.get(key,0) + 1
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Question 8

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

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

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

- ☐ It loops through the values in the dictionary
 - ☒ It loops through the keys in the dictionary
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Question 9

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

- ☐ each()
 - ☐ all()
 - ☒ values()
 - ☐ items()
 - ☐ keys()
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Question 10

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

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