

Chapter 9 Quiz

TOTAL POINTS 10

1.Question 1

How are Python dictionaries different from Python lists?

- ☒ Python lists maintain order and dictionaries do not maintain order
- ☐ Python lists store multiple values and dictionaries store a single value
- ☐ Python dictionaries are a collection and lists are not a collection
- ☐ Python lists can store strings and dictionaries can only store words

1 point

2.Question 2

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

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

1 point

3.Question 3

What would the following Python code print out?

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

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

1 point

4.Question 4

What would the following Python code print out?

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

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

1 point

5.Question 5

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

- ☒ False
- ☐ True

1 point

6.Question 6

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

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

1 point

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

1 point

8.Question 8

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

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

- ☐ It loops through the values in the dictionary
- ☐ 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 keys in the dictionary

1 point

9.Question 9

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

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

1 point

10.Question 10

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
- ☐ The value to retrieve
- ☐ The key to retrieve
- ☐ An alternate key to use if the first key cannot be found

1 point