

1. How are Python dictionaries different from Python lists?

1 point

- Python dictionaries are a collection and lists are not a collection
- Python lists are indexed using integers and dictionaries can use strings as indexes
- Python lists can store strings and dictionaries can only store words
- Python lists store multiple values and dictionaries store a single value

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

1 point

- Closures
- Sequences
- Associative arrays
- Lambdas

3. What would the following Python code print out?

1 point

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

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

4. What would the following Python code print out?

1 point

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

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

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

1 point

- 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
- Sorting a list of names into alphabetical order
- Computing an average of a set of numbers

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

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

1 point

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

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

1 point

```
1 x = dict()  
2 ...  
3 for y in x :  
4     ...
```

- It loops through the keys in the dictionary
- It loops through all of the dictionaries in the program
- It loops through the values in the dictionary

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

1 point

- `all()`
- `each()`
- `keys()`
- `values()`
- `items()`

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

1 point

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