

1
point

1. Consider this code:

```
1 >>> d = {'a': 1, 'b': 2}
2 >>> # CODE MISSING HERE
3 >>> d
4 {'a': 1, 'c': 3, 'b': 2}
5
```

Write the missing assignment statement that that modifies the dictionary as shown. (Just write the assignment statement; don't write the >>> part.)

d['c'] = 3

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2. Consider this code:

```
1 >>> d = {'a': 1, 'b': 2}
2 >>> # CODE MISSING HERE
3 >>> d
4 {'a': 1, 'b': 3}
```

Write the missing assignment statement that modifies the dictionary as shown. (Just write the assignment statement; don't write the >>> part.)

d['b'] = 3

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3. Consider this code:

```
1 >>> d = {'a': [1, 3], 'b': [5, 7]}
2 # CODE MISSING HERE
3 >>> d
4 {'a': [1, 2, 3], 'b': [5, 7]}
```

Select the option(s) that would lead to this result. Hint: call `help` on `insert`, `append`, and `sort`.

☐ d['A'].insert(1, 2)

☐ d['a'].append(2)

d['a'].sort()

☐ `d['a'].insert(2, 1)`☐ `d['a'].insert(1, 2)`

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4. Consider this assignment statement:

```
1 d = {'a': 1, 'c': 3, 'b': 2}
```

Select the expression(s) that evaluate to True.

☐ `'b' in "d"`☐ `2 in d`☐ `"b" in d`☐ `'b' in d`

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5. Consider this code:

```
1 d = {'a': [1, 3], 'b': [5, 7, 9], 'c': [11]}
```

Select the expression(s) that evaluate to 3.

☐ `len(d) - 3`☐ `len(d['b'])`☐ `len(d)`☐ `len(d['a' + 'c'])`

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6. Consider this code:

```
1 tup = (1, 2, 3)
```

Select the expression(s) and statement(s) below that **result in an error**.

- ☐ `subtup = tup[0:2]`
 - ☐ `tup[0:2] == (10, 30)`
 - ☐ `tup.reverse()`
 - ☐ `tup[-2] = 4`
-

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7. Select the expression(s) that can be used as dictionary keys.

- ☐ `('single',)`
 - ☐ `(1, 'fred', 2.0)`
 - ☐ `{1: 2, 3: 4}`
 - ☐ `['a', 'b']`
-

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8. Consider this code:

```
1 d = {1: ['a', 'b', 'c'], 2: ['d', 'e'], 3: []}
```

Select the code fragment(s) that set variable **total** to the number of items in all the lists that occur as values in **d**.

- ☐

```
1 L = []
2 for k in d:
3     L.append(k)
4
5 total = len(L)
```
 - ☐

```
1 total = 0
2 for k in d:
3     total = total + len(d[k])
```
 - ☐

```
1 total = 0
2 for k in d:
3     total = total + k
```
 - ☐

```
1 L = []
2 for k in d:
3     L.extend(d[k])
4
5 total = len(L)
```
-

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9. This dictionary has 3 keys that are all the same. **Enter this in the Python shell:**

```
1 {1: 10, 1: 20, 1: 30}
```

Submit what the code above evaluates to; don't submit your answers to the thought questions below.

What we want you to think about: We haven't covered this situation in the videos; what do *you* think should happen? Do you think this should cause an error? Should it discard some of the key/value pairs? If so, which one do you think it should keep? People who create programming languages have to make these kinds of decisions, and often there isn't a clear good choice.

```
{1: 30}
```

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10. Consider this code:

```
1 L = [['apple', 3], ['pear', 2], ['banana', 3]]
2 d = {}
3 for item in L:
4     d[item[0]] = item[1]
```

What does this code do?

- ☐ Populates dictionary `L` where each key is the first item of each inner list of `d` and each value is the second item of that inner list.
- ☐ Reorders the items in the inner lists of `L`.
- ☐ Removes the items from `L` and populates dictionary `d` where each key is the first item of each inner list of `L` and each value is the second item of that inner list.
- ☐ Populates dictionary `d` where each key is the first item of each inner list of `L` and each value is the second item of that inner list.

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11. Consider this code:

```

1 def eat(d):
2     '''(dict of {str: int}) -> bool
3
4     Each key in d is a fruit and each value is the quantity of that fruit
5     .
6     REST OF DESCRIPTION MISSING HERE
7
8     >>> eat({'apple': 2, 'banana': 3, 'pear': 3, 'peach': 1})
9     True
10    >>> eat({'apple': 0, 'banana': 0})
11    False
12    '''
13    ate = False
14    for fruit in d:
15        if d[fruit] > 0:
16            d[fruit] = d[fruit] - 1
17            ate = True
18
19    return ate

```

Select the most appropriate description below.

- ☐ Remove from d all fruits that have a value of 0 associated with them and return True if and only if there were no such fruits.
- ☐ Try to eat one of each fruit: reduce by 1 all quantities greater than 0 associated with each fruit in d and return True if and only if any fruit was eaten.
- ☐ Return True if and only if any fruit was eaten.
- ☐ Reduce by 1 all quantities greater than 0 associated with each fruit in d.

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12. Consider the code:

```

1 def contains(v, d):
2     ''' (object, dict of {object: list}) -> bool
3
4     Return whether v is an element of one of the list values in d.
5     >>> contains('moogah', {1: [70, 'blue'], 2: [1.24, 'moogah', 90], 3:
6     .14: [80, 100]})
7     True
8     >>> contains('moogah', {'moogah': [1.24, 'frooble', 90], 3: 14: [80,
9     100]})
10    False
11    '''
12
13    found = False # Whether we have found v in a list in d.
14
15    # CODE MISSING HERE
16
17    return found

```

Select the code fragment(s) that make the function above match its docstring description.



Tuples and Dictionaries

Quiz, 12 questions



```
1     for k in d:  
2         if v == k:  
3             found = True
```



```
1     for k in d:  
2         for i in range(len(d[k])):  
3             found = (d[k][i] == v)
```



```
1     for k in d:  
2         for i in range(len(d[k])):  
3             if d[k][i] == v:  
4                 found = True
```



```
1     for k in d:  
2         if v in d[k]:  
3             found = True
```

☐ I understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account. Learn more about Coursera's Honor Code

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