

Python Questions and Answers – Dictionary – 1

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Dictionaries”.

1. Which of the following statements create a dictionary?

- a) `d = {}`
- b) `d = {"john":40, "peter":45}`
- c) `d = {40:"john", 45:"peter"}`
- D** d) All of the mentioned

Dictionary is created by specifying keys and values.

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2. What will be the output of the following Python code snippet?

1. `d = {"john":40, "peter":45}`

- a) “john”, 40, 45, and “peter”
- B** b) “john” and “peter” → only print (keys)
- c) 40 and 45
- d) `d = (40:"john", 45:"peter")`

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3. What will be the output of the following Python code snippet?

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1. `d = {"john":40, "peter":45}`

2. `"john" in d`

- A
 a) True
 b) False
 c) None
 d) Error

→ can be used to check if the key is in a dictionary.

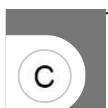
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4. What will be the output of the following Python code snippet?

1. `d1 = {"john":40, "peter":45}`
 2. `d2 = {"john":466, "peter":45}`
 3. `d1 == d2`

→ False | {
 }
 $d1 == d2 : \text{False}$
 $d1 = d2 : \text{True}$



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d) Error

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5. What will be the output of the following Python code snippet?

1. `d1 = {"john":40, "peter":45}`
2. `d2 = {"john":466, "peter":45}`
3. `d1 > d2`

- a) True
 b) False
 c) Error
 d) None

*arithmetic > operation
 cannot be used with dictionaries.*

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6. What will be the output of the following Python code snippet?

1. `d = {"john":40, "peter":45}`
2. `d["john"]`

- A a) 40 → `d[key] = value`
 b) 45
 c) "john"
 d) "peter"

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- b) d.delete("john")
 C c) del d["john"]
 d) del d("john":40)

$d = \{ "john": 40, "peter": 45 \}$
 to delete the entry for "john".

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8. Suppose $d = \{ "john": 40, "peter": 45 \}$. To obtain the number of entries in dictionary which command do we use?

- B b) len(d) → #度.
 c) size(d)
 d) d.len()

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9. What will be the output of the following Python code snippet?

key
 1. $d = \{ "john": 40, "peter": 45 \}$
 2. print(list(d.keys())).

→ list containing only keys of the dictionary (in the form of list)

- A a) ["john", "peter"]
 b) ["john":40, "peter":45]
 c) ("john", "peter")
 d) ("john":40, "peter":45)

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10. Suppose $d = \{ "john": 40, "peter": 45 \}$, what happens when we try to retrieve a value using the expression $d["susan"]$?

- a) Since "susan" is not a value in the set, Python raises a KeyError exception
 b) It is executed fine and no exception is raised, and it returns None
 C c) Since "susan" is not a key in the set, Python raises a KeyError exception
 d) Since "susan" is not a key in the set, Python raises a syntax error

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Python Questions and Answers – Dictionary – 2

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Dictionary – 2”.

1. Which of these about a dictionary is false?

- a) The values of a dictionary can be accessed using keys
- B** b) The keys of a dictionary can be accessed using values
- c) Dictionaries aren't ordered
- d) Dictionaries are mutable

Value: by keys
keys: not by values

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2. Which of the following is not a declaration of the dictionary?

- a) {1: 'A', 2: 'B'}
- b) dict([[1,"A"],[2,"B"]])
- C** c) {1,"A",2"B"} → a set.
- d) {}

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3. What will be the output of the following Python code snippet?

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```
a={1:"A", 2:"B", 3:"C"}
```

```
for i,j in a.items():
    print(i,j,end=" ")
```

variable *i, j* iterates over the keys and values of the dictionary.

A

- a) 1 A 2 B 3 C
- b) 1 2 3
- c) A B C
- d) 1:"A" 2:"B" 3:"C"

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4. What will be the output of the following Python code snippet?

```
a={1:"A", 2:"B", 3:"C"}
```

```
print(a.get(1,4))
```

↳ *get()* method returns the value of the key if the key is in the dictionary.

B

- a) 1
- b) A
- c) 4
- d) Invalid syntax for get method and the default value (2nd para)

if the key isn't in the dict.

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5. What will be the output of the following Python code snippet?

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```
a={1:"A",2:"B",3:"C"}  
print(a.get(5,4))
```

↳ returns default value (2nd parameter)

- a) Error, invalid syntax
- b) A
- c) 5
- D** (d) 4

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6. What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}  
print(a.setdefault(3))
```

↳ set dict[key] = default.

- a) {1: 'A', 2: 'B', 3: 'C'}
- B** (b) C ↳ if key is not in dict
- c) {1: 3, 2: 3, 3: 3}
- d) No method called setdefault() exists for dictionary

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7. What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}
```

- A**
- a) {1: 'A', 2: 'B', 3: 'C', 4: 'D'}
 - b) None
 - c) Error
 - d) [1,3,6,10]

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$a = \{1: "A", 2: "B", 3: "C"\}$
 $a.\underline{\text{setdefault}}(4, "D")$
 $\text{print}(a)$ → add (k, v) to dict.

8. What will be the output of the following Python code?

```
a={1:"A", 2:"B", 3:"C"}
b={4:"D", 5:"E"}
a.update(b)
print(a)
```

- C**
- a) {1: 'A', 2: 'B', 3: 'C'}
 - b) Method update() doesn't exist for dictionaries
 - c) {1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}
 - d) {4: 'D', 5: 'E'}

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9. What will be the output of the following Python code?

```
a={1:"A", 2:"B", 3:"C"}
b=a.copy()
b[2]="D"
print(a)
```

changes made in copy isn't reflected in the original one.

- B**
- a) Error, copy() method doesn't exist for dictionaries
 - b) {1: 'A', 2: 'B', 3: 'C'}
 - c) {1: 'A', 2: 'D', 3: 'C'}
 - d) "None" is printed

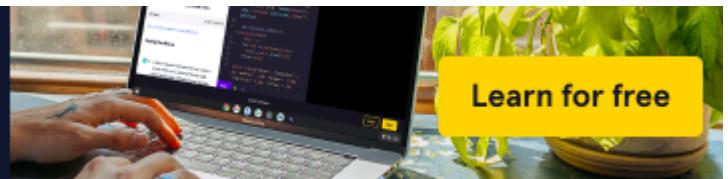
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10. What will be the output of the following Python code?

```
a={1:"A", 2:"B", 3:"C"}
a.clear()
print(a)
```

→ clear(): clears all the (k, v) in the dict.

- D**
- a) None
 - b) { None:None, None:None, None:None }
 - c) {1:None, 2:None, 3:None}
 - d) {}



11. Which of the following isn't true about dictionary keys?

- a) More than one key isn't allowed
- b) Keys must be immutable
- c) Keys must be integers \Rightarrow it can be any data type that is immutable.
- d) When duplicate keys encountered, the last assignment wins

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12. What will be the output of the following Python code?

`a={1:5,2:3,3:4}`
`a.pop(3)` \rightarrow pop() removes the (k, v) for the
 key mentioned in pop().

- a) {1: 5}
- B b) {1: 5, 2: 3}
- c) Error, syntax error for pop() method
- d) {1: 5, 3: 4}

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13. What will be the output of the following Python code?

`a={1:5,2:3,3:4}`
`print(a.pop(4,9))` \rightarrow 若沒有. return the 2nd parameter.

- A
- a) 9
 - b) 3
 - c) Too many arguments for pop() method
 - d) 4

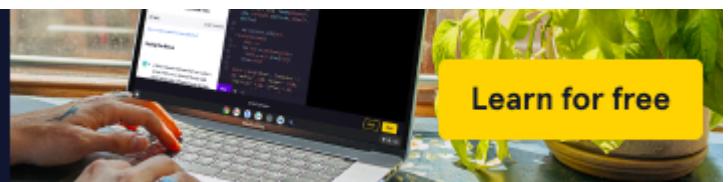
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14. What will be the output of the following Python code?

`a={1:"A",2:"B",3:"C"}`
`for i in a:` \rightarrow the variable i iterates over the keys
`print(i,end=" ")` of the dict.

- A
- a) 1 2 3
 - b) 'A' 'B' 'C'
 - c) 1 'A' 2 'B' 3 'C'
 - d) Error, it should be: for i in a.items():

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```
>>> a={1:"A",2:"B",3:"C"}
```

>>> a.items() → items(); list of tuples with each

- a) Syntax error
 b) dict_items([('A'), ('B'), ('C')])
 c) dict_items([(1,2,3)])
 D D d) dict_items([(1, 'A'), (2, 'B'), (3, 'C')])

tuple having a key, value pair.

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Python Questions and Answers – Dictionary – 3

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Dictionary – 3”.

1. Which of the statements about dictionary values is false?

- a) More than one key can have the same value
- b) The values of the dictionary can be accessed as dict[key]
- c) Values of a dictionary must be unique X
- d) Values of a dictionary can be a mixture of letters and numbers

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More than one key can have the same value.

2. What will be the output of the following Python code snippet?

```
>>> a={1:"A",2:"B",3:"C"}  
>>> del a
```

- a) method del doesn't exist for the dictionary
- b) del deletes the values in the dictionary
- c) del deletes the entire dictionary
- d) del deletes the keys in the dictionary

→ any further attempt to access it will throw an error.

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3. If `a` is a dictionary with some key-value pairs, what does `a.popitem()` do?

- A (A) a) Removes an arbitrary element
 b) Removes all the key-value pairs
 c) Removes the key-value pair for the key given as an argument
 d) Invalid method for dictionary

removes a random (k, v) pair.

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4. What will be the output of the following Python code snippet?

```
total={}
def insert(items):
    if items in total:
        total[items] += 1
    else:
        total[items] = 1
insert('Apple')
insert('Ball')
insert('Apple')
print(len(total))
```

insert : counts the number of occurrences of the item being inserted into dict.

There're only 2 keys presented.

∴ length of the dictionary is 2.

- C (C) a) 3
 b) 1
 c) 2
 d) 0

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5. What will be the output of the following Python code snippet?

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```
a = []
a[1] = 1
a['1'] = 2
a[1]=a[1]+1
count = 0
for i in a:
    count += a[i] → finds the sum of the
print(count)           values of keys.
```

- C C) 4
 b) 2
 d) Error, the keys can't be a mixture of letters and numbers

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6. What will be the output of the following Python code snippet?

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```

letters[4] = 'B'
comb["Numbers"] = numbers
comb['Letters'] = letters
print(comb)

```

- D
a) Error, dictionary in a dictionary can't exist X
 b) 'Numbers': {1: 56, 3: 7}
 c) {'Numbers': {1: 56}, 'Letters': {4: 'B'}}
 d) {'Numbers': {1: 56, 3: 7}, 'Letters': {4: 'B'}}

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7. What will be the output of the following Python code snippet?

```

test = {1:'A', 2:'B', 3:'C'}
test = {}  $\Rightarrow$  dict become empty.
print(len(test))  $\therefore \text{length} = 0$ .

```

- A
a) 0
 b) None
 c) 3
 d) An exception is thrown

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8. What will be the output of the following Python code snippet?

```

test = {1:'A', 2:'B', 3:'C'}
del test[1]  $\rightarrow$  After the (k, v) pair of {1: "A"} is deleted,
test[1] = 'D'      the (k, v) {1: "D"} is added.
del test[2]
print(len(test))  $\text{total length} = 2$ .

```

- B
a) 0
 b) 2
 c) Error as the key-value pair of 1:'A' is already deleted
 d) 1

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9. What will be the output of the following Python code snippet?

a = []

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```

count += a[i]
print(count)

```

- a) An exception is thrown
 b) 3
 c) 6
 d) 2

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10. What will be the output of the following Python code snippet?

```

a={}
a['a']=1
a['b']=[2,3,4]
print(a)

```

mutable members can be used as the value of dictionary.

but they cannot be used as the key of the dict.

- a) Exception is thrown
 b) {'b': [2], 'a': 1}
 c) {'b': [2], 'a': [3]}
 d) {'b': [2, 3, 4], 'a': 1}

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11. What will be the output of the following Python code snippet?

```

>>>import collections
>>> a=collections.Counter([1,1,2,3,3,4,4,4])
>>> a

```

↳ generates a dict with the number as the key and the count of times

- a) {1,2,3,4}
 b) Counter({4, 1, 3, 2})
 C c) Counter({4: 3, 1: 2, 3: 2, 2: 1}) the number appears as the value.
 d) {4: 3, 1: 2, 3: 2, 2: 1}

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12. What will be the output of the following Python code snippet?

```

>>>import collections
>>> b=collections.Counter([2,2,3,4,4,4])
>>> b.most_common(1)

```

most_common :

returns the n number [(k, v)]

where the value is the most returning.

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13. What will be the output of the following Python code snippet?

```
>>>import collections
>>> b=collections.Counter([2,2,3,4,4,4])
>>> b.most_common(1)
```

- a) Counter({4: 3, 2: 2, 3: 1})
- b) {3:1}
- c) {4:3}
- D** d) [(4, 3)]

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14. What will be the output of the following Python code snippet?

```
>>> import collections
>>> a=collections.Counter([2,2,3,3,3,4])
>>> b=collections.Counter([2,2,3,4,4])
>>> a|b
```

- A** a|b → a|b returns the pair of keys and the highest recurring value.
- a) Counter({3: 3, 2: 2, 4: 2})
 - b) Counter({2: 2, 3: 1, 4: 1})
 - c) Counter({3: 2})
 - d) Counter({4: 1})

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15. What will be the output of the following Python code snippet?

```
>>> import collections
>>> a=collections.Counter([3,3,4,5])
>>> b=collections.Counter([3,4,4,5,5,5])
>>> a&b
```

→ lowest.

- B** a&b → lowest.
- a) Counter({3: 12, 4: 1, 5: 1})
 - b) Counter({3: 1, 4: 1, 5: 1})
 - c) Counter({4: 2})
 - d) Counter({5: 1})

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Python Questions and Answers – Dictionary – 4

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1. The following Python code is invalid.

```
class demo(dict):
    def __test__(self, key):
        return []
a = demo()
a['test'] = 7
print(a)
```

→ the output is:
{'test': 7}.

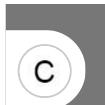
B

- a) True
- b) False

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2. What will be the output of the following Python code?

```
count={}
count[(1,2,4)] = 5
count[(4,2,1)] = 7
count[(1,2)] = 6
count[(4,2,1)] = 2
tot = 0
for i in count:
    tot=tot+count[i]
print(len(count)+tot)
```

- ① tuples can be made keys of a dictionary.
 ② length of the dictionary is 3

$$\text{tot: } 5 + 6 + 2 = 13.$$

- a) 25
 b) 17
 C (c) 16
 d) Tuples can't be made keys of a dictionary

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3. What will be the output of the following Python code?

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```
a={}
a[2]=1
```



a) [2,3,4]

B b) 3

c) 2

d) An exception is thrown

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$$a = \{ \}$$

$$a[2] = 1$$

$$a[1] = [2, 3, 4]$$

```
print(a[1][1]).
```

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$$a = \{ 1: [2, 3, 4], 2: 1 \}$$

$\therefore a[1][1] = 3$. the second element of key 1.

4. What will be the output of the following Python code?

```
>>> a={'B':5, 'A':9, 'C':7}
>>> sorted(a)
```

- A (a) ['A', 'B', 'C'] ↳ returns a new sorted list of keys
in the dictionary.
- b) ['B', 'C', 'A']
c) [5, 7, 9]
d) [9, 5, 7]

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5. What will be the output of the following Python code?

```
>>> a={i: i*i for i in range(6)}
>>> a
```

$\{0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25\}$
dictionary comprehension

- a) Dictionary comprehension doesn't exist
 b) {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36}
 c) {0: 0, 1: 1, 4: 4, 9: 9, 16: 16, 25: 25}



6. What will be the output of the following Python code?

```
>>> a={}
>>> a.fromkeys([1,2,3], "check")
```

- a) Syntax error
- B** b) {1:"check",2:"check",3:"check"}
- c) "check"
- d) {1:None,2:None,3:None}

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7. What will be the output of the following Python code?

```
>>> b={}
>>> all(b)
```

all(): returns True if all keys of the dictionary are True / or if the dict is empty.

- a) {}
- b) False
- C** c) True
- d) An exception is thrown

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8. If b is a dictionary, what does any(b) do?

- A** a) Returns True if any key of the dictionary is true (False if the dict is empty)
- b) Returns False if dictionary is empty
 - c) Returns True if all keys of the dictionary are true
 - d) Method any() doesn't exist for dictionary

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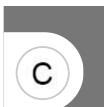
9. What will be the output of the following Python code?

```
>>> a={"a":1,"b":2,"c":3}
>>> b=dict(zip(a.values(),a.keys()))
>>> b
```

↳ inverts the (k, v) pair.

- a) {'a': 1, 'b': 2, 'c': 3}
- b) An exception is thrown
- c) {'a': 'b': 'c': }
- D** d) {1: 'a', 2: 'b', 3: 'c'}

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```
>>> a={i: 'A' + str(i) for i in range(5)}
>>> a
```

dictionary comprehensive

+ String concatenation.

- a) An exception is thrown
 b) {0: 'A0', 1: 'A1', 2: 'A2', 3: 'A3', 4: 'A4'}
 c) {0: 'A', 1: 'A', 2: 'A', 3: 'A', 4: 'A'}
 d) {0: '0', 1: '1', 2: '2', 3: '3', 4: '4'}

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11. What will be the output of the following Python code?

```
>>> a=dict()
>>> a[1]
```

- A) An exception is thrown since the dictionary is empty
 b) ''
 c) 1
 d) 0

The values of a dictionary can be accessed through the keys only if the keys exist.

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12. What will be the output of the following Python code?

```
>>> import collections
>>> a=dict()
>>> a[collections.defaultdict(int)] → gives the default value of 0.
>>> a[1]
```

given data type. even if the keys don't exist in the dictionary.

- B) 0
 a) 1
 c) An exception is thrown
 d) ''

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13. What will be the output of the following Python code?

```
>>> import collections
>>> a=dict()
>>> a[collections.defaultdict(str)]
>>> a['A']
```

- B) ''
 a) An exception is thrown since the dictionary is empty



14. What will be the output of the following Python code?

```
>>> import collections
>>> b=dict()
>>> b=collections.defaultdict(lambda: 7)
>>> b[4]
```

↑
default value: 7.

- a) 4
 b) 0
 c) An exception is thrown
D D (d) 7

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15. What will be the output of the following Python code?

```
>>> import collections
>>> a=collections.OrderedDict((str(x),x) for x in range(3))
>>> a
```

generates a dictionary satisfying the conditions given. and in an ascending order of the keys.

- B** B (a) {'2':2, '0':0, '1':1}
 (b) OrderedDict([('0', 0), ('1', 1), ('2', 2)])
 c) An exception is thrown
 d) ''

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