

Python Questions and Answers – Tuples – 1

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Tuples – 1”.

1. Which of the following is a Python tuple?

- a) [1, 2, 3]
B b) (1, 2, 3) → tuple 用 () 表示.
c) {1, 2, 3}
d) {}

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2. Suppose t = (1, 2, 4, 3), which of the following is incorrect?

- a) print(t[3])
B b) t[3] = 45 → values cannot be modified in tuple.
c) print(max(t)) tuple is immutable.
d) print(len(t)) (list/array 均可变)

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

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1. >>>t=(1,2,4,3)

2. >>>t[1:3] 1,2

a) (1, 2)

b) (1, 2, 4)

☒ c) (2, 4)

d) (2, 4, 3)

↳ slicing in tuple the same as string.

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

0 1 2 3

1. >>>t=(1,2,4,3)

2. >>>t[1:-1]

a) (1, 2)

b) (1, 2, 4)

☒ c) (2, 4)

d) (2, 4, 3)

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```

1. >>>t = (1, 2, 4, 3, 8, 9)
2. >>>[t[i] for i in range(0, len(t), 2)]

```

- a) [2, 3, 9]
b) [1, 2, 4, 3, 8, 9]
c) [1, 4, 8] → list.
d) (1, 4, 8)

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

```

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

```

- A a) 40
b) 45
c) "john"
d) "peter"

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

```

1. >>>t = (1, 2)
2. >>>2 * t

```

⇒ (1, 2, 1, 2)

*: concatenates tuple.



d) [1, 1, 2, 2]

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

```
1. >>>t1 = (1, 2, 4, 3)
2. >>>t2 = (1, 2, 3, 4)
3. >>>t1 < t2
```

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

Elements are compared 1 by 1.

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

```
1. >>>my_tuple = (1, 2, 3, 4)
2. >>>my_tuple.append( (5, 6, 7) )
3. >>>print len(my_tuple)
```

→ tuples are immutable.

don't have an append method.

An exception is thrown.

- a) 1
b) 2
c) 5
☒ d) Error

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

```
1. numberGames = {}
2. numberGames[(1,2,4)] = 8.
3. numberGames[(4,2,1)] = 10
4. numberGames[(1,2)] = 12
5. sum = 0
6. for k in numberGames:
7.     sum += numberGames[k]
8. print len(numberGames) + sum
```

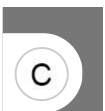
sum = 30.

- a) 30
b) 24
☒ c) 33
d) 12

Tuples can be used for keys into dictionary.

The tuples can have mixed length and the order of the items in the tuple is considered

when comparing the quality of the keys.



Python Questions and Answers – Tuples – 2

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

1. What is the data type of (1)?

a) Tuple

B b) Integer → A tuple of 1 element must be created as (1,)

c) List

d) Both tuple and integer

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2. If a=(1,2,3,4), a[1:-1] is _____

a) Error, tuple slicing doesn't exist

b) [2,3]

c) (2,3,4)

D d) (2,3)

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

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```
>>> a=(1,2,(4,5))
>>> b=(1,2,(3,4))
>>> a<b
```

→ since the 1st element in the sub-tuple of a is larger than the 1st element in the subtuple of b. False is printed.

- A ☒ a) False
b) True
c) Error, < operator is not valid for tuples
d) Error, < operator is valid for tuples but not if there are sub-tuples

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

```
>>> a=("Check")*3
>>> a
```

→ it's a string, not a tuple, because there's no comma.

- C ☒ a) ('Check','Check','Check')
b) * Operator not valid for tuples
c) 'CheckCheckCheck'
d) Syntax error

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

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```
>>> a=(1,2,3,4)
>>> del(a[2])
```

→ 'tuple' object doesn't support delete method.

- a) Now, a=(1,2,4)
- b) Now, a=(1,3,4)
- c) Now a=(3,4)
- ☒ d) Error as tuple is immutable

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

```
>>> a=(2,3,4)
>>> sum(a,3)
```

→ 3 is the starting value to add to the sum of a.

- a) Too many arguments for sum() method
- b) The method sum() doesn't exist for tuples
- ☒ c) 12
- d) 9

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7. Is the following Python code valid?

```
>>> a=(1,2,3,4)
del(a)
```

the command del a deletes the entire tuple.

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- c) Yes, the entire tuple is deleted
- d) No, invalid syntax for del method

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8. What type of data is: a=[(1,1),(2,4),(3,9)]?

- a) Array of tuples
- ☒ b) List of tuples
- c) Tuples of lists
- d) Invalid type

The variable a has tuples enclosed in a list making it a list of tuples.

View Answer

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

```
>>> a=(0,1,2,3,4)
>>> b=slice(0,2)
>>> a[b]
```

→ slices.

- a) Invalid syntax for slicing
- b) [0,2]
- ☒ c) (0,1)
- d) (0,2)

View Answer

10. Is the following Python code valid?

```
>>> a=(1,2,3)
>>> b=('A','B','C')
>>> c=tuple(zip(a,b))
```

→ zip function combines individual elements of 2 iterables into tuples.

- ☒ a) Yes, c will be ((1, 'A'), (2, 'B'), (3, 'C'))
- b) Yes, c will be ((1,2,3),('A','B','C'))
- c) No because tuples are immutable
- d) No because the syntax for zip function isn't valid

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Python Questions and Answers – Tuples-3

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

1. Is the following Python code valid?

```
>>> a,b,c=1,2,3
```

```
>>> a,b,c ,
```

→ a tuple needn't be enclosed in ()

a) Yes, [1,2,3] is printed

b) No, invalid syntax

C c) Yes, (1,2,3) is printed

d) 1 is printed

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```

a = ('check',)
n = 2
for i in range(int(n)):
    a = (a,)
    print(a)

```



the loop runs 2 times and each time
the loop runs an extra (,).
is added to the tuple (a')

a) Error, tuples are immutable

B (b)

```

(('check',),)
(((('check',),),),)

```

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c) (('check',)'check',)

d)

```

(('check',)'check',)
(((('check',)'check',)'check',)

```

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```
>>> a,b=1,2,3
```

- a) Yes, this is an example of tuple unpacking. a=1 and b=2
 b) Yes, this is an example of tuple unpacking. a=(1,2) and b=3
 C **c) No, too many values to unpack**
 d) Yes, this is an example of tuple unpacking. a=1 and b=(2,3)

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→ For unpacking, the num of values of the right hand side
 = num of variables on left.

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

```
>>> a=(1,2)
>>> b=(3,4)
>>> c=a+b
>>> c
```

→ the values of the tuples aren't being changed.
 Both tuples are simply concatenated.

- a) (4,6)
 B **b) (1,2,3,4)**
 c) Error as tuples are immutable
 d) None

View Answer

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

```
>>> a,b=6,7
>>> a,b=b,a
```

⇒ the unpacking of variables.
 a,b=(7,6)

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- c) (7,6)
- d) Nothing is printed

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

```
>>> import collections
>>> a=collections.namedtuple('a',['i','j'])
>>> obj=a(i=4,j=7)
>>> obj
```

↓
the concept of named tuples.

- A
- a) a(i=4, j=7)
 - b) obj(i=4, j=7)
 - c) (4,7)
 - d) An exception is thrown

View Answer

7. Tuples can't be made keys of a dictionary.

- B
- a) True
 - b) False

Tuples can be made keys of
a dictionary because they are hashable.

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8. Is the following Python code valid?

```
>>> a=2,3,4,5
>>> a
```

→ 元组 ().

- D.
- a) Yes, 2 is printed
 - b) Yes, [2,3,4,5] is printed
 - c) No, too many values to unpack
 - d) Yes, (2,3,4,5) is printed

View Answer

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

```
>>> a=(2,3,1,5)
>>> a.sort()
>>> a
```

→ Error.

tuple has no attributes sort.

- a) (1,2,3,5)
- b) (2,3,1,5)

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10. Is the following Python code valid?

```
>>> a=(1,2,3)
```

```
>>> b=a.update(4,)
```

→ tuple doesn't have any update().
because it's immutable.

a) Yes, a=(1,2,3,4) and b=(1,2,3,4)

b) Yes, a=(1,2,3) and b=(1,2,3,4)

c) No because tuples are immutable

d) No because wrong syntax for update() method

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

```
>>> a=[(2,4),(1,2),(3,9)]
```

```
>>> a.sort()
```

```
>>> a
```

→ A list of tuple is a list itself.

Hence items of a list can be sorted.

A a) [(1, 2), (2, 4), (3, 9)]

b) [(2,4),(1,2),(3,9)]

c) Error because tuples are immutable

d) Error, tuple has no sort attribute

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