

Python Questions and Answers – While and For Loops – 1

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “While and For Loops”.

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

```
x = ['ab', 'cd']
for i in x:
    i.upper()
    print(x)
```

⇒ upper() does not modify a string in place.
↳ return a new string.

A

- a) ['ab', 'cd']
- b) ['AB', 'CD']
- c) [None, None]
- d) none of the mentioned

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

```
x = ['ab', 'cd']
for i in x:
    x.append(i.upper())
    print(x)  ← this loop does not terminate.
```

- D . 遍历不会停止. 因为每次都会 append new element.
- a) ['AB', 'CD']
 - b) ['ab', 'cd', 'AB', 'CD']
 - c) ['ab', 'cd']
 - d) none of the mentioned

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

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```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)
```

i += 1 *i += 1*
syntax error.

- C .
- a) 1 2
 - b) 1 2 3
 - c) error
 - d) none of the mentioned

```
i = 1
while True:
```

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- a) 1 2
- b) 1 2 3
- c) error
- d) none of the mentioned

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

```
i = 1
while True:
    if i%07 == 0:
        break
    print(i)
    i += 1
```

A. *i=7 → break.*
print
→ control exits the loop
when i=7.

- a) 1 2 3 4 5 6
- b) 1 2 3 4 5 6 7
- c) error
- d) none of the mentioned

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

✓ i = 5

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- a) 5 6 7 8 9 10
- b) 5 6 7 8
- c) 5 6
- d) error

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

```
i = 5
while True:
    if i%09 == 0:      j=5,
        break
    print(i)
    i += 1
```

- D.
- a) 5 6 7 8
 - b) 5 6 7 8 9
 - c) 5 6 7 8 9 10 11 12 13 14 15
 - d) error

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

```
i = 1
j=1
while True:
    if i%2 == 0:      j=3
        break
    print(i)
    i += 2
    j=j+2
```

- D.
- a) 1
 - b) 1 2
 - c) 1 2 3 4 5 6 ...
 - d) 1 3 5 7 9 11 ...

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

```
i = 2
while True:
    if i%3 == 0:
```

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Q5.

```
i = 5
while True:          octal  八进制.
    if i%0011 == 0:  ↗
        break
    print(i)
    i += 1
```

B.

- a) 5 6 7 8 9 10
- b) 5 6 7 8
- c) 5 6
- d) error

Q6.

```
i = 2
while True:
    if i%3 == 0:      2%3=2
        break
    print(i)
    i += 2
    4%3=1
    6%3=0
    break.
```

B.

- a) 2 4 6 8 10 ...
- b) 2 4
- c) 2 3
- d) error

- a) 2 4 6 8 10 ...
- b) 2 4
- c) 2 3
- d) error

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

```
i = 1
while False:
    if i%2 == 0:      ← control does not enter
        break
    print(i)
    i += 2
```

the loop bcs the False.

D.

- a) 1
- b) 1 3 5 7 ...
- c) 1 2 3 4 ...
- d) none of the mentioned

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

D.

```
True = False
while True:
    print(True)
    break
```

→ Syntax Error. True is a keyword.
→ Error? Its value cannot be changed.

- a) True
- b) False
- c) None
- d) none of the mentioned

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Python Questions and Answers – While and For Loops – 2

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This set of Advanced Python Questions & Answers focuses on “While and For Loops – 2”.

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

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

j=0. i=1 j=2 j=3
 j<5 i<5 i>5 break.
 print(0) p(1)
 i+=1

→ 'else' part is not executed

- a) 0 1 2 0
 B b) 0 1 2
 c) error
 d) none of the mentioned
- If control breaks out the loop.

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

```
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print(0)
```

↓

j=0 j=1 j+=1
 j<3 j=1 j=3
 print() j<3 else
 print() j=3
 print() 0.

while = False

执行 else.

- a) 0 1 2 3 0
- B.** (b) 0 1 2 0
- c) 0 1 2
- d) error

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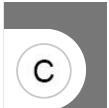
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3. What will be the output of the following Python code?

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```
x = "abcdef"
while i in x:
    print(i, end=" ")
```

- a) a b c d e f
- b) abcdef *NameError: i is not defined.*
- c) i i i i i ...
- D.** (d) error



- a) a b c d e f
- b) abcdef
- c) i i i i i ...
- d) error

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

```
x = "abcdef"
i = "i"           "i" is not in x.
while i in x:
    print(i, end=" ")
```

A:

- a) no output
- b) i i i i i ...
- c) a b c d e f
- d) abcdef

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

```
x = "abcdef"
i = "a"
while i in x:
    print(i, end = " ")
```

```
x = "abcdef"
i = "a"           → as the value of i
while i in x:
    print(i, end = " ") or x isn't changing.
```

- a) no output
- b) i i i i i ...
- c) a a a a a ... →
- d) a b c d e f

the condition will always evaluate to True.



d) a b c d e f

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

```
x = "abcdef"
i = "a"
while i in x:
    print(i, end = " ")
```

*→ the condition will always be True.
"i" is a string. not a variable*

B.

- a) no output
- b)** i i i i ...
- c) a a a a a a ...
- d) a b c d e f

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

```
x = "abcdef"
i = "a"
while i in x:
    x = x[:-1]
    print(i, end = " ")
```

*[:-1] =
x[:-1] = "abcdef"*

B.

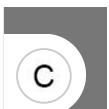
- b)** a a a a a a
- c) a a a a a a
- d) none of the mentioned

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

```
x = "abcdef"
i = "a"
while i in x[:-1]:
    print(i, end = " ")
```

- a) a a a a a a
- b)** a a a a a a
- c) a a a a a a a ...
- d) a

*String x is not being altered.**i is in x[:-1].*

```
x = "abcdef"
i = "a"
while i in x:
    x = x[1:]
    print(i, end = " ")
```

- B. a
 b
 c) no output
 d) error

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

```
x = "abcdef"
i = "a"
while i in x[1:]:
    print(i, end = " ")
```

- a a a a a a
 b) a
 C. c) no output *i is not in x[1:]*
 d) error

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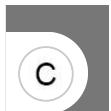
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Python Questions and Answers – While and For Loops – 3

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This set of Tough Python Questions & Answers focuses on “While and For Loops”.

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

```
x = 'abcd'  
for i in x:  
    print(i)  
    x.upper()  
    x ⇒ Changes do not happen in-place.
```

- B. a) a B C D
b) a b c d
c) A B C D
d) error

return a new instance string

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

```
x = 'abcd'
for i in x:
    print(i.upper())
```

↳ print this new instance.

- B . a) a b c d
 b) A B C D
 c) a B C D
 d) error

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

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```
x = 'abcd'
for i in range(x):
    print(i)
```

range(str) X

- C . a) a b c d
 b) 0 1 2 3
 c) error
 d) none of the mentioned

```
x = 'abcd'
for i in range(x):
    print(i)
```



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

```
x = 'abcd'          4,
for i in range(len(x)):
    print(i)           for i in range(4)
```

- a) a b c d
- B** b) 0 1 2 3
- c) error
- d) 1 2 3 4

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

```
x = 'abcd'
for i in range(len(x)):
    print(i.upper())
```

- a) a b c d
- C** b) 0 1 2 3
- c) error
- d) 1 2 3 4

Objects of type int doesn't have
attributes upper().

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```
i.upper()
print(x)
```

- a) a b c d
- b) 0 1 2 3
- c) error
- d) none of the mentioned

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```
x = 'abcd'
for i in range(len(x)):
    i.upper()
    print(x)
```

- C.
- a) a b c d
 - b) 0 1 2 3
 - c) error
 - d) none of the mentioned

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

```
x = 'abcd'
for i in range(len(x)):
    x[i].upper()
    print(x)
```

A.

- a) abcd
- b) ABCD
- c) error
- d) none of the mentioned

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

```
x = 'abcd'
for i in range(len(x)):
    i[x].upper()
    print(x)
```

error.

- C.
- a) abcd
 - b) ABCD
 - c) error
 - d) none of the mentioned

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Q.

```
x = 'abcd'
for i in range(len(x)):
    x = 'a'
    print(x)
```

- a) a
- b) abcd abcd abcd
- c) a a a a
- d) none of the mentioned

range() is computed only
in the loop.

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

```
x = 'abcd'
for i in range(len(x)):
    x = 'a'
```

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d) none of the mentioned

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

```
x = 'abcd'
for i in range(len(x)):
    print(x)
x = 'a'
```

→ abcd a a a
after 1st print
x changes from 'abcd' to 'a'.

- a) a
 b) abcd abcd abcd abcd
 c) a a a a
 D d) none of the mentioned

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