

Python Questions and Answers – While and For Loops – 2

[« Prev](#)[Next »](#)

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)
```

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

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Answer: b

Explanation: The else part is not executed if control breaks out of 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)
```

- a) 0 1 2 3 0
- b) 0 1 2 0
- c) 0 1 2
- d) error

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Answer: b

Explanation: The else part is executed when the condition in the while statement is false.

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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
- c) i i i i i ...
- d) error

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Answer: d

Explanation: NameError, i is not defined.

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

```
x = "abcdef"
i = "i"
```

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

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

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Answer: a

Explanation: "i" is not in "abcdef".

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

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

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

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Answer: c

Explanation: As the value of i or x isn't changing, the condition will always evaluate to True.

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

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

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

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Answer: b

Explanation: Here i i i i ... printed continuously because as the value of i or x isn't changing, the condition will always evaluate to True. But also here we use a citation marks on "i", so, here i treated as a string, not like a variable.

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 = " ")
```

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

View Answer

Answer: b

Explanation: The string x is being shortened by one character in each iteration.

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

View Answer

Answer: c

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

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

```
x = "abcdef"
i = "a"
```

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

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

[View Answer](#)

Answer: b

Explanation: The string x is being shortened by one character in each iteration.

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

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Answer: c

Explanation: i is not in x[1:].

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