



Code Exams

Python Beginner Written Examination

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Question 1.

What would the following code output?

```
print("Hello, world!")
```

- (A) Hello world
- (B) Hello
- (C) world!
- (D) Hello, world!

Question 2.

Which of the following pieces of code would output the first 10 positive integers, like so:

```
1
2
3
4
5
6
7
8
9
10
```

(A)

```
for i in range(1, 11):
    print(i)
```

(B)

1 - a

```
for i in range(1, 10):  
    print(i)
```

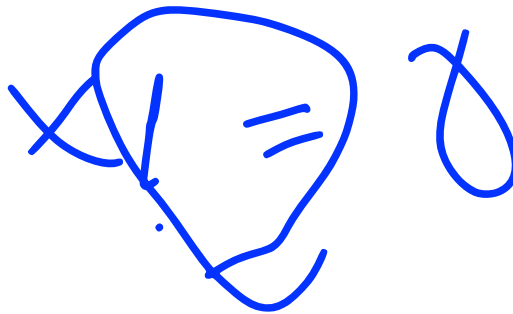
(C)
while True:
 print("12345678910")

(D)
i = 1
while i != 10:
 print(i)
 i = i + 1

Question 3.

Which of the following statements would return True, given that x is set to an integer value of 5?

- (A) x = 5
- (B) x == -5
- (C) x != 0
- (D) x === 5



Question 4.

What would the following code output?

```
array = [0, 7, 3, 6, 10, 2]  
print(array[4])
```

- (A) array[4]

- (B) 6
- (C) 10
- (D) 0, 7, 3, 6

Question 5.

Which of the following pieces of code correctly imports the included 'random' library?

- (A) import library: random
- (B) import random
- (C) from included import random
- (D) from libraries import random

Question 6.

What would the following code output?

```
x = 7  
if x > 9:  
    print("x is very big")  
elif x > 7:  
    print("x is fairly big")  
else:  
    print("x is small")
```

- (A) x is very big
- (B) x is fairly big
- (C) x is small
- (D) None of the above

Question 7.

Which of the following pieces of code defines a function named 'round_up', takes in one integer argument named 'n', and will always return an integer that is 'n' rounded up?

(Note: the function 'ceil' takes in one parameter, is imported from the math library, and will always return the least integer greater than or equal to the parameter given.)

(A)

```
from math import ceil
```

```
def round_up(n) -> int:  
    return ceil(n)
```

(B)

```
from math import ceil
```

```
def round_up(int n) -> int:  
    return ceil(n)
```

(C)

```
import math
```

```
def round_up(n) -> int:  
    return ceil(n)
```

(D)

math.ceil

```
from ceil import math
```

```
def round_up(n) -> int:  
    return ceil(n)
```

Question 8.

What would the following code output?

```
dictionary = {"1": 5, "2": 4, "3": 3, "4": 2, "5": 1}  
print(dictionary["4"])
```

- (A) 4
- (B) dictionary["4"]
- (C) 42
- (D) 2

Question 9.

What would the following code output?

```
print(max([3, 4, 5] + [5, 4, 3]))
```

- (A) [3, 4, 5]
- (B) 5
- (C) [3, 4, 5, 5, 4, 3]
- (D) None of the above

3, 4, 5, 5, 4, 3

Question 10.

What does the reserved keyword 'self' represent?

(A) The list of parameters of the program the keyword is used in.

(B) The list of arguments of the function the keyword is used in.

(C) The instance of the class the keyword is used in.

(D) The return type of the function the keyword is used in.