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Certified Associate in Python Programming - 2025



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Question: 298

What is the purpose of the `__sub__()` method in a Python class?

- A. To define how the `-` operator can be used with the object.
- B. To define the initial state of the object when it is created.
- C. To define the methods that can be called on the object.
- D. To define the attributes that the object will have.

Answer: A

Explanation: The `__sub__()` method in a Python class is used to define how the `-` operator can be used with the object. This can be useful for objects that represent values or collections that can be subtracted from each other, such as numbers or sequences.

Question: 299

Which of the following is not a valid method for the list data type in Python?

- A. `append()`
- B. `insert()`
- C. `remove()`
- D. `divmod()`

Answer: D

Explanation: `divmod()` is not a valid method for the list data type. It is a built-in function in Python that returns the quotient and remainder of a division operation.

Question: 300

What is the purpose of the `__setitem__()` method in a Python class?

- A. To enable setting of individual elements of the object

- B. To define the initial state of the object
- C. To specify the default behavior when the object is printed
- D. To enable the object to be used in mathematical operations

Answer: A

Explanation: The `__setitem__()` method in a Python class is used to enable setting of individual elements of the object. This method is called when you attempt to assign a value to an element of the object using square brackets, like `obj[index] = value`. By implementing this method, you can define custom behavior for how the object should respond to item assignment operations.

Question: 301

What is the output of the following code?

```
def func(x, y):  
    return x + y
```

```
func_var = func  
print(func_var(2, 3))
```

- A. 5
- B. 6
- C. `TypeError: func_var() takes 2 positional arguments but 3 were given`
- D. `NameError: name 'func_var' is not defined`

Answer: A

Explanation: The `func` function is assigned to the variable `func_var`. When `func_var(2, 3)` is called, it invokes the `func` function with the arguments 2 and 3, which returns 5.

Question: 302

What is the output of the following code?

```
def foo(x):  
    try:  
        return 10 / x  
    except ZeroDivisionError:  
        return 'Cannot divide by zero'
```

```
print(foo(2))  
print(foo(0))  
A. 5.0, 'Cannot divide by zero'  
B. 5.0, 0  
C. 5, 'Cannot divide by zero'  
D. 5.0, 'Cannot divide by zero'
```

Answer: D

Explanation: The foo function takes an argument x and attempts to divide 10 by x inside a try block. If a ZeroDivisionError occurs, the function returns the string 'Cannot divide by zero'. When foo(2) is called, the function returns 5.0, which is then printed. When foo(0) is called, the ZeroDivisionError is raised, and the function returns the string 'Cannot divide by zero', which is then printed. The output of the code is 5.0, 'Cannot divide by zero'.

Question: 303

What is the output of the following code?

```
a = [1, 2, 3, 4, 5]  
b = a  
a.remove(3)  
print(b)  
A. [1, 2, 4, 5]  
B. [1, 2, 3, 4, 5]  
C. [1, 2, 3, 4]  
D. [1, 2, 3, 4, 5, 1, 2, 4, 5]
```

Answer: A

Explanation: In the given code, a and b are both references to the same list object. When the remove(3) method is called on a, it removes the first occurrence of the value 3 from the list. Since b is a reference to the same list, the change made to a is reflected in b as well, and the output is [1, 2, 4, 5].

Question: 304

What is the purpose of the __delitem__() method in a Python class?

- A. To enable deletion of individual elements of the object
- B. To define the initial state of the object
- C. To specify the default behavior when the object is printed
- D. To enable the object to be used in mathematical operations

Answer: A

Explanation: The __delitem__() method in a Python class is used to enable deletion of individual elements of the object. This method is called when you attempt to delete an element of the object using the del keyword, like del obj[index]. By implementing this method, you can define custom behavior for how the object should respond to item deletion operations.

Question: 305

What is the output of the following code snippet?

```
def my_func(x, y):  
    return round(x / y)  
  
print(my_func(10, 3))
```

- A. 3
- B. 3.0
- C. 3.33

D. 4

Answer: D

Explanation: The `my_func` takes two parameters `x` and `y` and returns the result of `x / y` rounded to the nearest integer. When `my_func(10, 3)` is called, it performs the division `10 / 3`, which results in `3.3333`, and then rounds it to the nearest integer, which is `4`.

Question: 306

What is the output of the following code?

```
a = [1, 2, 3, 4, 5]
b = a
a = [10, 20, 30]
print(a, b)
```

A. `[10, 20, 30] [10, 20, 30]`
B. `[10, 20, 30] [1, 2, 3, 4, 5]`
C. `[1, 2, 3, 4, 5] [10, 20, 30]`
D. `[1, 2, 3, 4, 5] [1, 2, 3, 4, 5]`

Answer: B

Explanation: In the given code, `a` and `b` are initially assigned the same list object. However, when `a` is reassigned to a new list `[10, 20, 30]`, the reference to the original list is lost, and `b` still points to the original list `[1, 2, 3, 4, 5]`.

Question: 307

What is the output of the following code snippet?

```
def my_func(x, y):
    return len(str(x * y))

print(my_func(12, 34))
```


- A. 4
- B. 5
- C. 6
- D. 7

Answer: C

Explanation: The `my_func` takes two parameters `x` and `y`, multiplies them, converts the result to a string, and then returns the length of the string. When `my_func(12, 34)` is called, the result of `12 * 34` is 408, which has a string length of 3. Therefore, the output is 6.

Question: 308

What is the output of the following code?

```
try:
    x = 1 / 0
except ZeroDivisionError:
    print("ZeroDivisionError occurred")
finally:
    print("Finally block executed")
```

- A. ZeroDivisionError occurred
Finally block executed
- B. Finally block executed
- C. ZeroDivisionError occurred
- D. TypeError: unsupported operand type(s) for /: 'int' and 'int'

Answer: A

Explanation: The code attempts to divide 1 by 0, which raises a `ZeroDivisionError`. This error is caught in the `except` block, and the message "ZeroDivisionError occurred" is printed. Regardless of whether an exception is raised or not, the `finally` block is always executed, and the message "Finally block executed" is printed.

Question: 309

Which of the following statements about the `__new__` method in a Python class is true?

- A. It is used to define the behavior of the `type()` function when used with the class.
- B. It is used to define the behavior of the `isinstance()` function when used with an instance of the class.
- C. It is used to define the behavior of the class statement when creating a new class.
- D. It is used to define the behavior of the `object()` function when creating a new instance of the class.

Answer: C

Explanation: The `__new__` method in a Python class is used to define the behavior of the class statement when creating a new class, allowing you to customize the creation of the class itself.

Question: 310

What is the output of the following code?

```
class A:  
    def __init__(self, x):  
        self.x = x
```

```
    def method(self):  
        print("A's method")
```

```
class B(A):  
    def __init__(self, x, y):  
        A.__init__(self, x)  
        self.y = y
```



```
obj = B(1, 2)
print(obj.x, obj.y)
```

A. 1 2
B. 2 1
C. AttributeError: 'B' object has no attribute 'x'
D. TypeError: init() missing 1 required positional argument: 'y'

Answer: A

Explanation: The B class inherits from the A class and adds the y attribute in its `__init__` method. When the obj instance of B is created, the `__init__` method of the A class is called with the x argument, and the y argument is assigned to the y attribute of the B class. Therefore, the output is 1 2.

Question: 311

What is the output of the following code?

```
class A:
    def __init__(self):
        self.x = 1
```

```
class B(A):
    def __init__(self):
        super().__init__()
        self.x = 2
```

```
a = A()
b = B()
print(a.x, b.x)
```

A. 1 1
B. 1 2
C. 2 2
D. An error will be raised

Answer: B

Explanation: In the given code, the A class has an `__init__` method that initializes the x attribute to 1. The B class inherits from A and also has an `__init__` method that calls the `__init__` method of the parent class (A) using `super().__init__()`, and then sets the x attribute to 2. When instances of A and B are created and their x attributes are printed, the output is 1 2, as the x attribute of the B instance is overwritten by the assignment in the B class's `__init__` method.

Question: 312

What is the output of the following code snippet?

```
def my_func(x, y):  
    return x ** y
```

```
print(my_func(2, 3))
```

- A. 6
- B. 8
- C. 9
- D. 16

Answer: D

Explanation: The `my_func` takes two parameters x and y and returns the result of `x ** y`, which is the exponentiation operation (raising x to the power of y). When `my_func(2, 3)` is called, it returns the result $2 ** 3 = 8$.

Question: 313

What is the output of the following code?

```
def foo(x, y=1, *args, z=2, **kwargs):  
    print(x, y, args, z, kwargs)
```

```
foo(0, 1, 2, 3, 4, z=5, a=6, b=7)
A. 0 1 (2, 3, 4) 5 {'a': 6, 'b': 7}
B. 0 1 (2, 3, 4, z=5) {'a': 6, 'b': 7}
C. 0 1 (2, 3, 4) 2 {'z': 5, 'a': 6, 'b': 7}
D. 0 1 (2, 3, 4, 5) {'a': 6, 'b': 7}
```

Answer: A

Explanation: In the given function signature, x is the first positional argument, y is the second positional argument with a default value of 1, *args collects all the remaining positional arguments into a tuple, z is a keyword-only argument with a default value of 2, and **kwargs collects all the remaining keyword arguments into a dictionary. When the function is called, the arguments are mapped to the corresponding parameters, and the values are printed as specified.

Question: 314

What is the output of the following code?

```
def func(a, b=1, *args, c=2, **kwargs):
    print(a, b, args, c, kwargs)
```

```
func(5, 6, 7, 8, c=9, d=10, e=11)
A. 5 6 (7, 8) 9 {'d': 10, 'e': 11}
B. 5 6 (7, 8) 2 {'c': 9, 'd': 10, 'e': 11}
C. 5 1 (7, 8) 9 {'c': 9, 'd': 10, 'e': 11}
D. 5 6 (7, 8) 2 {'d': 10, 'e': 11}
```

Answer: A

Explanation: The function func() takes the following parameters:

a: a required positional argument

b: an optional positional argument with a default value of 1

*args: a tuple of any additional positional arguments

c: an optional keyword argument with a default value of 2

**kwargs: a dictionary of any additional keyword arguments

When `func(5, 6, 7, 8, c=9, d=10, e=11)` is called, the arguments are mapped as follows:

a is 5

b is 6

args is the tuple (7, 8)

c is 9 (overriding the default value of 2)

kwargs is the dictionary {'d': 10, 'e': 11}

Therefore, the output is `5 6 (7, 8) 9 {'d': 10, 'e': 11}`.

Question: 315

What is the output of the following code?

```
class A:
```

```
    def __init__(self):
```

```
        self.x = 1
```

```
    def __repr__(self):
```

```
        return f"A(x={self.x})"
```

```
a = A()
```

```
print(a)
```

A. `A(x=1)`

B.

C. `A`

D. `1`

Answer: A

Explanation:

The `__repr__` method in the A class returns a string representation of the object,

which is used when the object is printed. When `print(a)` is called, it calls the `__repr__` method of the A class, which returns "A(x=1)".

Question: 316

What is the purpose of the `__iter__` and `__next__` methods in a Python class?

- A. To define the behavior of the for loop when iterating over the object.
- B. To define the behavior of the in operator when used with the object.
- C. To define the behavior of the `len()` function when used with the object.
- D. To define the behavior of the `next()` function when used with the object.

Answer: A

Explanation: The `__iter__` and `__next__` methods in a Python class are used to define the behavior of the for loop when iterating over the object, allowing it to be used as an iterator.

Question: 317

What is the output of the following code?

```
def func(x, y):  
    return x + y
```

```
print(func(2, 3) * func(3, 4))
```

- A. 25
- B. 49
- C. 70
- D. 77

Answer: B

Explanation: The `func(2, 3)` call returns 5, and the `func(3, 4)` call returns 7. The expression `func(2, 3) * func(3, 4)` then evaluates to $5 * 7 = 35$.

Question: 318

What is the purpose of the init.py file in a Python package?

- A. It is used to define the package's entry point.
- B. It is used to specify the package's dependencies.
- C. It is used to initialize the package's global variables.
- D. It is used to define the package's modules and subpackages.

Answer: D

Explanation: The init.py file in a Python package serves the purpose of defining the package's modules and subpackages. When a package is imported, the init.py file is executed, and it can be used to perform various initialization tasks, such as setting up the package structure, importing necessary modules, or defining package-level functions and variables.

The other options are incorrect:

- A. The entry point of a Python package is typically defined in the setup.py file, not the init.py file.
- B. Package dependencies are usually specified in the setup.py file or in a requirements.txt file, not in the init.py file.
- C. The init.py file can be used to initialize package-level variables, but this is not its primary purpose.

Question: 319

What is the output of the following code?

```
try:
x = 1 / 0
except ZeroDivisionError:
print("ZeroDivisionError caught")
else:
```



```
print("No exception occurred")
finally:
print("Executing the finally block")
A. ZeroDivisionError caught
Executing the finally block
B. ZeroDivisionError caught
No exception occurred
Executing the finally block
C. No exception occurred
Executing the finally block
D. ZeroDivisionError caught
```

Answer: A

Explanation: The try-except-else-finally block is executed as follows:

The try block attempts to divide 1 by 0, which raises a ZeroDivisionError. The except block catches the ZeroDivisionError and prints "ZeroDivisionError caught".

The else block is skipped because an exception occurred.

The finally block is executed, printing "Executing the finally block".

Question: 320

What is the output of the following code?

```
a = [1, 2, 3, 4, 5]
b = a[1:4]
c = a[:4]
d = a[:]
print(b, c, d)
```

A. [2, 3, 4] [1, 2, 3, 4] [1, 2, 3, 4, 5]
B. [2, 3, 4] [1, 2, 3, 4] [1, 2, 3, 4, 5]
C. [2, 3, 4] [1, 2, 3, 4] [1, 2, 3, 4, 5, 1, 2, 3, 4, 5]
D. [2, 3, 4] [1, 2, 3, 4] [1, 2, 3, 4, 5, 1, 2, 3, 4]

Answer: A

Explanation:

`b = a[1:4]` creates a new list containing the elements at indices 1, 2, and 3 (2, 3, 4) from the original list `a`.

`c = a[:4]` creates a new list containing the elements at indices 0, 1, 2, and 3 (1, 2, 3, 4) from the original list `a`.

`d = a[:]` creates a new list that is a copy of the original list `a`.

Question: 321

What is the output of the following code?

```
class A:
    def __init__(self):
        self.x = 1
        self.y = 2
```

```
class B(A):
    def __init__(self):
        super().__init__()
        self.z = 3
```

```
b = B()
print(b.x, b.y, b.z)
```

- A. 1 2 3
- B. 2 3 1
- C. AttributeError
- D. 1 2

Answer: A

Explanation: The `B` class inherits from the `A` class, so it has access to the `x` and `y` attributes defined in the `A` class. In the `__init__` method of the `B` class, `super().__init__()` is called, which initializes the `x` and `y` attributes. The `B` class also defines its own `z` attribute, which is then printed along with `x` and `y`.

Question: 322

What is the output of the following code?

```
def func(a, b):  
    try:  
        c = a / b  
        print(c)  
    except ZeroDivisionError:  
        print("Error: Division by zero")  
    else:  
        print("Division successful")  
  
func(10, 2)  
func(10, 0)
```

- A. 5.0, Error: Division by zero
- B. 5.0, Division successful, Error: Division by zero
- C. Division successful, Error: Division by zero
- D. Error: Division by zero, Division successful

Answer: A

Explanation: The first call to `func(10, 2)` divides 10 by 2, which is successful, so the output is "5.0" followed by "Division successful". The second call to `func(10, 0)` divides 10 by 0, which raises a `ZeroDivisionError`, so the output is "Error: Division by zero".



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