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# 1 What will be the output of the following code snippet?

```
def func(a, b):  
    return b if a == 0 else func(b % a, a)  
print(func(30, 75))  
# Answer (C) 15
```

# 2

```
numbers = (4, 7, 19, 2, 89, 45, 72, 22)  
sorted_numbers = sorted(numbers)  
even = lambda a: a % 2 == 0  
even_numbers = filter(even, sorted_numbers)  
print(type(even_numbers))  
# Answer (B) Filter
```

# 3) As what datatype are the \*args stored, when passed into

# a) When passed into a tuple, the \*args are stored as a tuple.

# b) When passed into a list, the \*args are stored as a list.

# c) \*args cannot be passed into a dictionary directly. However,

# a dictionary can be created using \*\*kwargs, where kwargs is a dictionary.

# d) If nothing is passed as \*args, then it will be stored as None.

# 4)

```
set1 = {14, 3, 55}  
set2 = {82, 49, 62}  
set3={99,22,17}  
print(len(set1 + set2 + set3))  
# Answer (d) Error"
```

# 5) What keyword is used in Python to raise exceptions?

# (a) raise

# 6) Which of the following modules need to be imported to handle date time computations in Python?

# (c) datetime

# 7) What will be the output of the following code snippet?

```
print(4**3 + (7 + 5)**(1 + 1))  
# (c) 208
```

# 8) Which of the following functions converts date to corresponding time in Python?

# Answer (c) both a and b

# 9) The python tuple is \_\_\_\_\_ in nature.

# Answer (b) Immutable

#10. The \_\_\_\_ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.  
# answer (A) range()

#11. Amongst which of the following is a function which does not have any name?  
# Answer C. Lambda function

#12. The module Pickle is used to \_\_\_\_.  
# C. Both A and B

# 13. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?  
# Answer B. dump() method

# 14. Amongst which of the following is / are the method used to unpickling data from a binary file?  
# Answer A. load()

#15 A text file contains only textual information consisting of \_\_\_\_.  
# Answer A. Alphabets

# 16  
""Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

```
captains = {  
    "Enterprise": "Picard",  
    "Voyager": "Janeway",  
    "Defiant": "Sisko",  
}
```

```
Enterprise Picard,  
Voyager Janeway  
Defiant Sisko"
```

# Answer a) for ship, captain in captains.items(): print(ship, captain)

# 17 Which of the following lines of code will create an empty dictionary named captains?  
# Answer (d) captains = {}

""# 18) Now you have your empty dictionary named captains. It's time to add some data! Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway", and "Defiant": "Sisko".

Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?"

```
# b) captains["Enterprise"] = "Picard"  
# captains["Voyager"] = "Janeway"  
# captains["Defiant"] = "Sisko"
```

""19 ) You're really building out the Federation Starfleet now! Here's what you have:

```
captains = {  
    "Enterprise": "Picard",  
    "Voyager": "Janeway",
```

```
"Defiant": "Sisko",  
"Discovery": "unknown",  
}Now, say you want to display the ship and captain names contained in the dictionary, but you also  
want to provide some additional context. How could you do it?  
"""
```

```
# Answer (b) for ship, captain in captains.items():  
# print(f"The {ship} is captained by {captain}.")
```

```
# 20 )
```

```
"""You've created a dictionary, added data, checked for the existence of keys, and iterated over it with  
a for loop. Now you're ready to delete a key from this dictionary:""
```

```
captains = {  
    "Enterprise": "Picard",  
    "Voyager": "Janeway",  
    "Defiant": "Sisko",  
    "Discovery": "unknown",  
}
```

```
# Answer (c) del captains["Discovery"]
```