Score for this quiz: ${f 0}$ out of 35

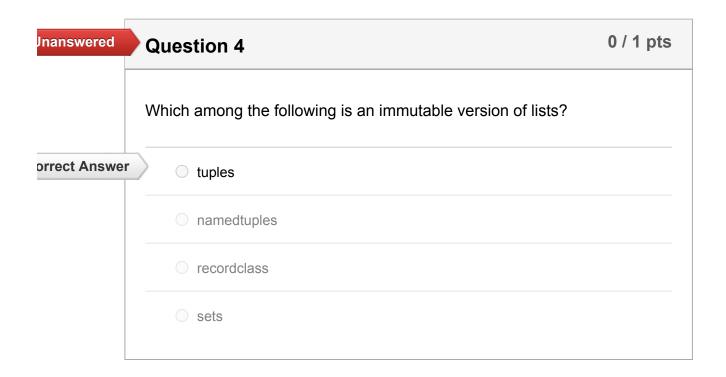
Submitted Mar 1 at 1:32pm

This attempt took less than 1 minute.

Jnanswered	Question 1	0 / 1 pts
	What will be printed by the following segment of code?	
	<pre>name = "Data Programming Works!" words = name.split(" ") print(words.pop(-1))</pre>	
	Data Programming	
orrect Answer	○ Works!	
	○!	
	○ Works	

Jnanswered	Question 2	0 / 1 pts
	Using asserts is most useful for dealing with which category of	errors?
orrect Answei	semantic	
	runtime	
	syntax	

Jnanswered	Question 3 0 / 1 p	ots
	True or False question: If a function defined in Python doesn't have an explicit "return" statement, it automatically returns the last variable present in the body of the function.	
	○ True	
orrect Answe	False	



What is the output of the following code? sorted(["f", "E", "h", "G"], reverse = True)

	○ ['E', 'f', 'G', 'h']	
	○ ['h', 'G', 'f', 'E']	
	○ ['E', 'G', 'f', 'h']	
orrect Answer	○ ['h', 'f', 'G', 'E']	

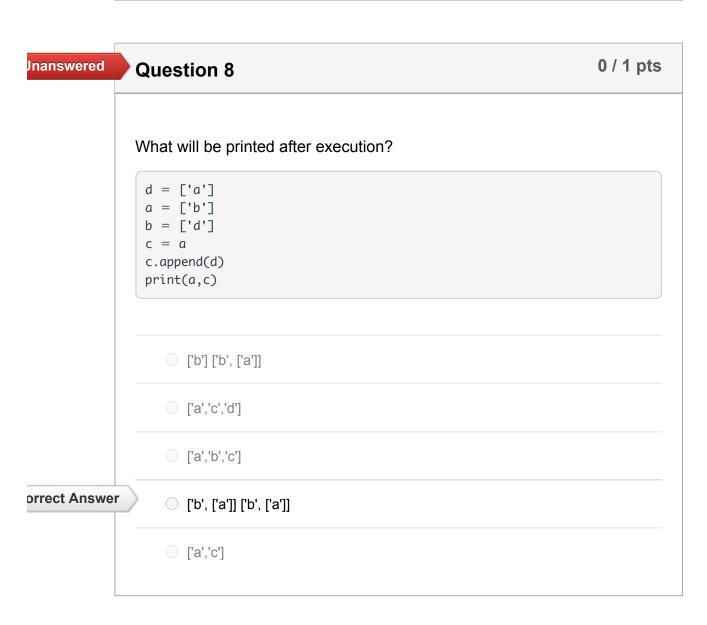
Jnanswered	Question 6	0 / 1 pts
	What type of objects are immutable in Python?	
orrect Answer	tuple	
	Dictionaries	
orrect Answer	Strings	
	Custom types created using recordclass	
orrect Answer	Custom types created using namedtuple	
	Lists	

```
Unanswered Question 7

What will be printed after the following is executed?

val = "umbrella"
count = dict()
for c in val:
   if not c in count:
      count[c] = 0
   else:
```

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	<pre>count[c] += 2 print(count["1"])</pre>	
_	O 0	
_	O 1	
	O 4	
orrect Answer	O 2	



0 / 1 pts Jnanswered **Question 9** What will be in the file after this code runs? The file exists when the code starts. f = open("file.txt", "w") f.write("Hello") f.close() f = open("file.txt", "w") f.write("CS220 students") f.close() Hello CS220 students orrect Answer CS220 students Hello HelloCS220 students

Jnanswered	Question 10	0 / 1 pts
	Which of the following cannot be used as a key for a Python dicti	onary?
	 namedtuples 	
	strings	
orrect Answer	Olists	
	 negative integers 	
	○ tuples	
L		

Jnanswered

Question 11

0 / 1 pts

Consider the following code snippet and answer the question below it.

```
header = ['room_id', 'name', 'neighborhood_group', 'latitude', 'numb
er_of_reviews']
rooms = [
['11943', 'Country space in the city', 'Brooklyn', 40.63702,0],
['206071', 'Yankee Stadium Oasis 2 stops to Manhattan!', 'Bronx', 4
0.82802, 253],
['24285', 'Beautiful Duplex Apartment', 'Brooklyn', 40.66941, 30],
['151199', 'Astoria-Private Home NYC-', 'Queens', 40.75725, 414],
['98330', 'LOVELY APARTMENT IN THE HEART OF NY', 'Manhattan', 40.7387
7, 1],
['60611', 'SpaHa Studio Monthly Rental', 'Manhattan', 40.79163, 183]]

def get_ids(rooms):
    all_ids = []
    for i in range(len(rooms)):
        all_ids.append(????)
    return all_ids
```

The function get_ids(rooms) must return a list of all room_ids from the dataset rooms. What should ???? be replaced with?

o row[i]
orow[header.index("room_id")]
orooms[i]["room_id"]

orrect Answer

rooms[i][header.index("room_id")]

Jnanswered

Question 12

0 / 1 pts

Consider the following code snippet and then answer the question below it.

```
id_to_name = {
    '11943': 'Country space in the city',
    '206071': 'Yankee Stadium Oasis 2 stops to Manhattan!',
    '24285': 'Beautiful Duplex Apartment',
    '151199': 'Astoria-Private Home NYC-',
    '98330': 'LOVELY APARTMENT IN THE HEART OF NY',
    '60611': 'SpaHa Studio Monthly Rental'
    }

What is the output for len(id_to_name)?

| len doesn't work for dict.
| 0
| 5
| 12
| 10
| orrect Answer | 6
```

Jnanswered

Question 13

0 / 1 pts

Consider the following code snippet and then answer the question below it.

```
header = ['room_id', 'name', 'neighborhood_group', 'latitude', 'numb
er_of_reviews']
rooms = [
['11943', 'Country space in the city', 'Brooklyn', 40.63702,0],
['206071', 'Yankee Stadium Oasis 2 stops to Manhattan!', 'Bronx', 4
0.82802, 253],
['24285', 'Beautiful Duplex Apartment', 'Brooklyn', 40.66941, 30],
['151199', 'Astoria-Private Home NYC-', 'Queens', 40.75725, 414],
['98330', 'LOVELY APARTMENT IN THE HEART OF NY', 'Manhattan', 40.7387
7, 1],
['60611', 'SpaHa Studio Monthly Rental', 'Manhattan', 40.79163, 183]]
```

What does the following evaluate to? rooms[3][:2] prrect Answer ['151199', 'Astoria-Private Home NYC-'] [40.66941, 30] ['24285', 'Beautiful Duplex Apartment'] ['151199', 'Astoria-Private Home NYC-', 'Queens']

Jnanswered

Question 14

0 / 1 pts

Consider the following code snippet and then answer the question below it.

```
id_to_name = {
'11943': 'Country space in the city',
'206071': 'Yankee Stadium Oasis 2 stops to Manhattan!',
'24285': 'Beautiful Duplex Apartment',
'151199': 'Astoria-Private Home NYC-',
'98330': 'LOVELY APARTMENT IN THE HEART OF NY',
'60611': 'SpaHa Studio Monthly Rental'
}
```

The right syntax to iterate over the keys in the dictionary id_to_name is:

- for key in id_to_name.values():
- for i in range(len(id_to_name)):

- of for key in id to name:
- of for key, value in id to name:

Jnanswered

Question 15

0 / 1 pts

Consider the following code snippet and then answer the question below it.

```
id_to_name = {
11943: 'Country space in the city',
206071: 'Yankee Stadium Oasis 2 stops to Manhattan!',
24285: 'Beautiful Duplex Apartment',
151199: 'Astoria-Private Home NYC-',
98330: 'LOVELY APARTMENT IN THE HEART OF NY',
60611: 'SpaHa Studio Monthly Rental'
}
```

What is the output for:

```
print (type(id_to_name), type(id_to_name.get(151199)), type(id_to_name.get("98330")), type(id_to_name.get("60611", 10.02)))
```

- <class 'dict'>, <class 'int'>, <class 'str'>, <class 'NoneType'>
- <class 'dict'>, <class 'int'>, <class 'NoneType'>, <class 'float'>
- <class 'dict'>, <class 'str'>, <class 'NoneType'>, <class 'str'>

orrect Answer

<class 'dict'>, <class 'str'>, <class 'NoneType'>, <class 'float'>

Jnanswered

Question 16

0 / 1 pts

Consider the following code snippet. Assume that this code snippet is executed and then answer the question below it.

What does the following evaluate to? movies[3]["genres"].index(movies[1] ["genres"][1])

None
None

3

0 1

0

orrect Answer

2

Jnanswered

Question 17

0 / 1 pts

```
{"title": "C", "year": 20, "style": "short", "genres": ["g1", "g3"]},
    {"title": "D", "year": 20, "style": "long", "genres": ["g1", "g
2", "g3"]},
    {"title": "E", "year": 20, "style": "long", "genres": ["g2"]}
]
```

What will counts contain? Be careful!

```
counts = {}
for m in movies:
    for genre in m["genres"]:
        if not genre in counts:
            counts[genre] = 1
        counts[genre] += 1
```

- ("g1": 3, "g2": 3, "g3": 3)
- {"g1": 3, "g2": 4, "g3": 3}

orrect Answer

- ("g1": 4, "g2": 5, "g3": 4
- {"g1": 3, "g2": 3}
- {}

Jnanswered Question 18

0 / 1 pts

```
{"title": "E", "year": 20, "style": "long", "genres": ["g2"]}
```

What will be printed? Be careful!

```
buckets = {}
bucket = []
for m in movies:
    key = m["year"]
    if not key in buckets:
        buckets[key] = bucket
    buckets[key].append(key)
print(len(buckets[19]))
```

- 3
- 4

orrect Answer

- **5**
- 0 1
- 2

Jnanswered

Question 19

0 / 1 pts

How many lines will be printed to the screen?

```
for i in range(10):
    try:
        m = movies[i]
        print(m["title"])
        year = m["DATE"]
        print(year)
    except:
        print("Exception occurred!")
        print("What happened to me?")
```

- 5
- 15
- 0 10
- 20

orrect Answer

25

Jnanswered

Question 20

0 / 1 pts

What would the following code print?

```
a = movies.pop(-1)
b = a.pop("long")
print(b)

None

{"title": "E", "year": 20, "style": "long", "genres": ["g2"]}

KeyError: "long"

"style"
```

Jnanswered

orrect Answer

Question 21

0 / 1 pts

What is the output after the following code is executed?

- {"Milk": 2, "Eggs": 10, "Bread": 10}
- ["Lipsticks", "Face Cream"]

orrect Answer

{"Milk": 3, "Eggs": 10, "Bread": 10}

("Milk": 2, "Eggs": 10

Jnanswered

Question 22

0 / 1 pts

What is the output after the following code is executed?

["Lipsticks", "Face Cream"]

orrect Answer

- ["Keyboard", "Earphone", "PS4"]
- ["Face Mask", "Hand Santitizer", "Thermometer"]

Jnanswered

Question 23

0 / 1 pts

Given the below code, which of the following options will print 3?

```
def alpha(obj_a, obj_B):
    if obj_B > obj_a:
        return obj_B + obj_a
    return obj_B
```

```
\begin{array}{c} a = 1 \\ b = 2 \\ c = 3 \\ d = 4 \end{array}
\begin{array}{c} \text{None of other answers -- they all lead to a TypeError} \\ \text{print}(y(a,b) + y(c,d)) \\ \text{print}(y(a,c) + y(b,d)) \\ \text{print}(y(d,b) + y(c,a)) \\ \text{print}(y(d,c) + y(b,a)) \\ \end{array}
```


Jnanswered

Question 25

0 / 1 pts

You are given the following code:

```
from collections import namedtuple
import math
Player = namedtuple("Player", ["name", "rating", "age"])
eve = Player("Evelyn", 87, 25)
kyl = Player("Kyle", 82, 24)
pam = Player("Pamela", 78, 26)
players = [pam, eve, kyl]
```

What is the value produced by running the following code?

```
players[2].age += 1
```

- A new player object is created for Pamela.
- Pamela's age is set to 27.
- Kyle's age is set to 25.

orrect Answer

A runtime error will occur.

Jnanswered

Question 26

0 / 1 pts

What are the types of greeting_fall and greeting, respectively?

```
def greeting_spring():
    return "Welcome to CS 220 :)!"

greeting_fall = greeting_spring
greeting = greeting_spring()
```

	2.tan. 2. 661.1 661.2 67.1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	String, Function
	String, String
	Function, Function
orrect Answer	○ Function, String

0 / 1 pts **Jnanswered Question 27** What is the output after the code is run? def secret(): yield "It's my secret." yield "I won't tell you!" yield "You will never know." yield "My mom doesn't know, either." g = secret() print(next(g)) orrect Answer "It's my secret." "My mom doesn't know, either." This code does not run! "You will never know." "I won't tell you!"

Question 28 0 / 1 pts

Replace the `???` in the following code to sort the `apartment_list` by the price.

price

orrect Answer

- apartment[1]
- apartment[2]
- apartment_list["price"]
- apartment[0]

Jnanswered

Question 29

0 / 1 pts

What will be printed and in what order after the code is run?

Milk: \$2.99

Eggs: \$1.99

Keyboard: \$39.45
Monitor: \$259.99
Total: \$304.42

<generator object secret at 0x102ec2750>

Milk: \$2.99 Eggs: \$1.99

Keyboard: \$39.45

Monitor: \$259.99

Milk: \$2.99

Jnanswered

Question 30

0 / 1 pts

Which of the following descriptions is **not correct**?

When you open a file whose path is the current working directory with mode "w", if the file does not exists, a new file is created.

When you open a file with mode 'w', if the file exists, the existing file is overwritten with the new file.

Failure to close a file may lead to loss of changes to file.

When you open a file with a sub-directory in the path that does not exist, both the sub-directory and the file will be created.

You can have only limited number of open files.

Jnanswered

Question 31

0 / 1 pts

Which of the following statements is **true** after we successfully run the following code? Please read all options carefully before answering!

```
import os
f = open('file.txt','w')
f.write('Rock ')
f.close()

os.mkdir('d1')
f = open(os.path.join("d1", "file.txt"),'w')
f.write('Paper ')
f.close()

f = open('file.txt','w')
f.write('Scissors ')
f.write('I won!')
f.close()

f = open('file.txt')
foo = f.read()
f.close()
```

- os.path.isfile(os.path.join("d1", "file.txt")) will return False
- os.path.isdir('d1') will return False
- os.path.exists('file.txt') will return False
- The value stored in foo is "I won!"

('d1' in os.listdir('.')) will return True

Jnanswered

Question 32

0 / 1 pts

What will be stored in data3 after the following code is executed?

```
f = open('file.txt','w')
f.write('alohomora')
f.close()

f = open('file.txt')
data1 = f.read()
data2 = data1.split('o')
f.close()

data3 = data1 [3] + data2 [3]
```

'om
OIII

'h	h'

orrect Answer

'	h	ra	

Ho a
nr

00'

Jnanswered

Question 33

0 / 1 pts

Which lines are executed in the following code? Use the marked line number (comment) to answer this question.

Hint: Note the difference between "which lines are executed" and "which lines are successfully executed". Question is asking "which lines are

executed".

```
def f():
   a = 1 # line 1
b = 0 # line 2
   return a+b # line 3
def g():
   try:
                                     # line 4
        c = 0
        print(f()/c)
                                     # line 5
    except:
        print("An error happened!") # line 6
try:
                                 # line 7
    g()
except:
    print("An error happened!") # line 8
```

- Lines 1, 2, 3, 4, 5, and 7
- Lines 1, 2, 3, 4, 6, and 7
- Lines 1, 2, 3, 4, 5, 6, 7, and 8

orrect Answer

- Lines 1, 2, 3, 4, 5, 6, and 7
- Lines 1, 2, and 3

Jnanswered

Question 34

0 / 1 pts

Which call to errorCatcher will **NOT cause an exception / error**?

```
def errorCatcher(x,y,z):
    assert type(x) == list and type(y) == list
    if x [-2] > y [-1]:
        raise ArithmeticError("Incorrect numerical values")
    assert (x[1] - z) % 3 == 0
    return "Well done !"
```

	<pre>errorCatcher([2,3,1], 4, -3)</pre>
	o errorCatcher([3,2], [8,2], 0)
	<pre>errorCatcher([-1,0], [1,2], -4)</pre>
orrect Answe	r errorCatcher([5,7],[2,8,6],1)
	<pre>errorCatcher([4,2], [5], 7)</pre>

Jnanswered

Question 35

0 / 1 pts

Which string will be stored in the variable "after" when the following code is completely executed?

```
before = ['x','y','z']
after = ''
try:
    for i in range(-1,4):
        after += before [i]
except:
    after += after [0]
```

- o 'xyz'
- yy'
- 'zxyz'

orrect Answer

- o 'zxyzz'
- yyzx'