DataScience Specialization - Test Series 1 - Batch A & B - 7th October 2023

Total points 33/50

✓	In Python 2, what is the primary reason for using xrange() instead of	1/1
	range()?	

- xrange() is more memory-efficient for large ranges.
- range() is not available in Python 2.
- xrange() is faster for small ranges.
- There is no difference between xrange() and range() in Python 2.

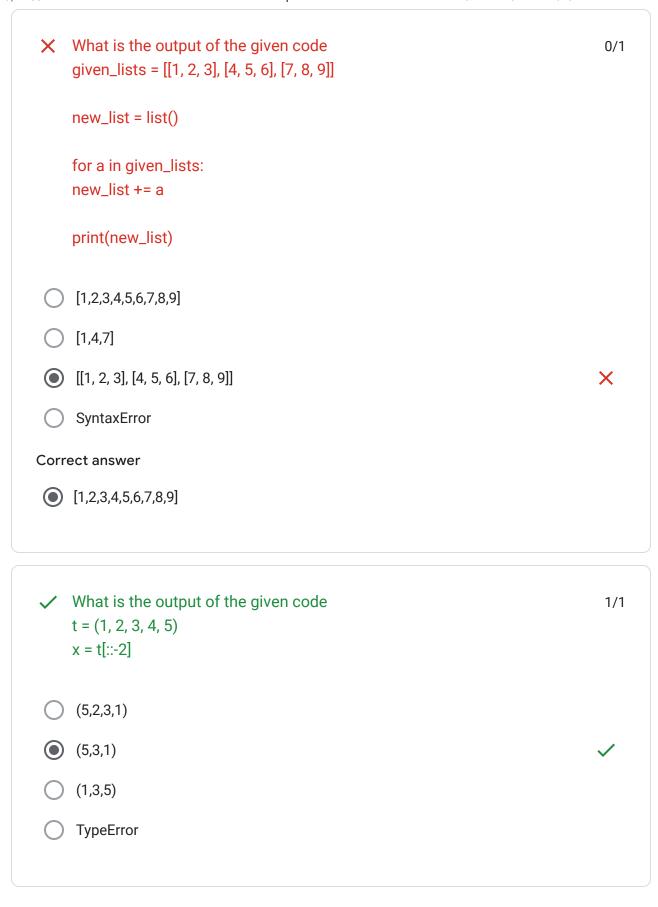
·	•	
×	In Python 3, how do you open a file in binary mode for reading and writing simultaneously?	0/1
	file.open("myfile.txt", "rb+") open("myfile.txt", "rb+")	×
0	open("myfile.txt", "rw")	
0	file.open("myfile.txt", "rw")	
Corre	ect answer	
•	file.open("myfile.txt", "rb+")	
	What is the output of the following code snippet? my_dict = {'a': 1, 'b': 2} new_dict = my_dict.copy() new_dict['a'] = 3 print(my_dict['a'])	1/1
	1	✓
0	2	
0	3	

KeyError

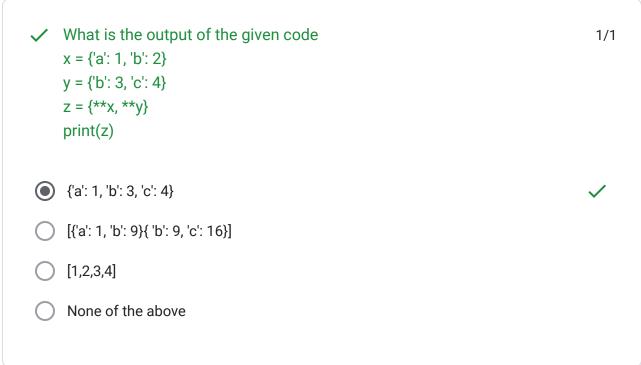
✓ What is the result of len(set(range(5)))?	1/1
5	~
O 4	
○ 3	
O 2	

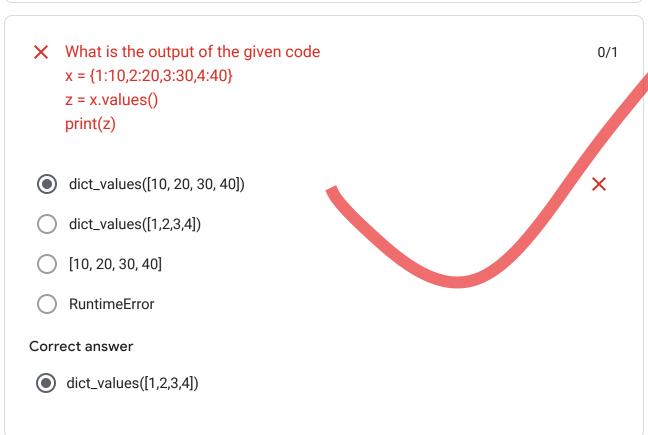
✓ What is the output of the given code def mylist(i, x=[]): x.append(i) return x	1/1
for i in range(3): y = mylist(i) print(y)	
[0,1,2,3]	
[1,2,3]	
RuntimeError	
[0][0, 1][0, 1, 2]	✓

H



~	What function to use to get common elements from the given sets $s = \{1, 2, 3\}$ $t = \{3, 4, 5\}$ $x = s.function(t)$	1/1
0	shared	
•	intersection	✓
0	union	
0	common	
	What is the output of the given code x = {'a': 1, 'b': 2} y = {'b': 3, 'c': 4} def func(x, y): z = x.copy() z.update(y) return z s=func(x,y) print(s)	1/1
•	{'a': 1, 'b': 3, 'c': 4}	✓
0	{'a': 1, 'b': 6, 'c': 4}	
0	RuntimeError	
0	[{'a': 1, 'b': 3}{ 'b': 3, 'c': 4}]	





What is the output of the given code d = {'a': 1, 'b': 2, 'c': 3} x = d.update({'b': 4,'d':10}) print(d)	1/1
('a': 1, 'b': 4, 'c': 3, 'd': 10)	✓
('a': 1, 'b': 4, 'c': 3)	
{'a': 1, 'b': 2, 'c': 3, 'd': 10}	
○ TYpeError	
What is the value of x d = {'a': 1, 'b': 2, 'c': 3} x = ('a' in d)	1/1
TRUE	✓
O 1	
('a':1)	
SyntaxError	

What is the output of the given code z = {i: i ** 2 for i in range(5)} # x = d[a] print(z[3])	1/1
O 6	
9	✓
O 16	
○ 3	
What is the output of the given code d = {i: chr(65+i) for i in range(5)} x = sum(d.keys())	1/1
d = {i: chr(65+i) for i in range(5)}	1/1
d = {i: chr(65+i) for i in range(5)} x = sum(d.keys())	1/1
<pre>d = {i: chr(65+i) for i in range(5)} x = sum(d.keys()) print(x)</pre>	1/1
<pre>d = {i: chr(65+i) for i in range(5)} x = sum(d.keys()) print(x)</pre> 11	1/1
<pre>d = {i: chr(65+i) for i in range(5)} x = sum(d.keys()) print(x) 11 270</pre>	1/1

What is the value of x d = {'cars':['xyz','abc','alpha','zeta']} x=d['cars'][::-1]	0/1
[ˈzetaˈ, ˈalphaˈ, ˈabcˈ, ˈxyzˈ]	
[ˈxyz',ˈabc',ˈalpha',ˈzetaˈ]	
○ xyz	
o zeta	×
Correct answer	
('zeta', 'alpha', 'abc', 'xyz')	
✓ What is the output of the given code nums = [10,20,30,40,50] for i, num in enumerate(nums): print(f" {i}: {num}")	1/1
1: 10	
T1: 20	
o "0: 10	✓
TypeError	

✓ What is the output of the given code def fun(*args): if len(args)>5: return sum(args) x = fun(5,4,3,2,1) print(x)	1/1
O 15	
O 0	
None	~
TypeError	
X In Python 2, which operator performs floor division and discards the fractional part of the result?	e 0/1
	×
O //	
O "%	
**	
Correct answer	
//	

✓	In Python 2, how do you concatenate two strings str1 and str2 efficiently?	1/1
0	str1.concat(str2)	
•	str1 + str2	✓
0	str1.concatenate(str2)	
0	concat(str1, str2)	
~	What is the result of the following code in Python 2? $x = 5$ $y = x + 1$ if $x \% 2 == 0$ else $x - 1$	1/1
0	6	
•	4	✓
0	5	
0	7	
/	What does the ord() function do in Python 3?	1/1
0	It calculates the absolute value of a number.	
•	It returns the Unicode code point for a given character.	✓
0	It generates random numbers.	
0	It raises an exception.	

×	What does the len() function return for an empty dictionary in Python 3?	0/1
0	0	
0	1	
0	None	×
0	It raises an exception.	
Cori	rect answer	
•	0	
✓	What is the result of the following code in Python 3? num = 7 result = "Even" if num % 2 == 0 else "Odd"	1/1
0	Even	
0	Odd	✓
0	7	
0	EvenOdd	
✓	What is the maximum value that can be stored in a Python int?	1/1
0	2^31 - 1	
•	2^63 - 1	✓
0	It depends on the system architecture.	
0	Unlimited	

✓ What is the output of abs(-5)?	1/1
<u>-5</u>	
5	✓
O 0	
Error	
\times Given x = 2.5 and y = 2, what is the result of x ** y?	0/1
5	×
6.25	
O 2	
Correct answer	
6.25	
✓ What is the purpose of the recursion in a Python function?	1/1
To call other functions	
To define inner functions	
To call the same function within itself	✓
To handle exceptions	

✓	How can you pass a variable number of keyword arguments to a Python	1/1
	function?	

- By using the *args parameter
- By using the **kwargs parameter
- By specifying all possible arguments in the function definition
- O Python does not support variable keyword arguments

(1) [1, 4, 9, 16, 25]

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- [2, 4, 6, 8, 10]
- [1, 3, 5, 7, 9]
- [1, 2, 3, 4, 5]
- ✓ How do you use a lambda function to filter elements from a list?

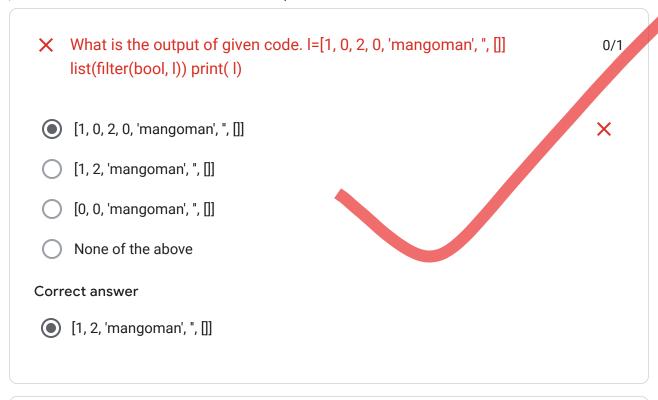
1/1

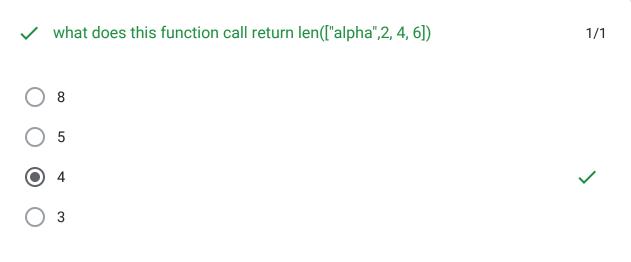
filter(lambda x: x % 2 == 0, my_list)



- my_list.filter(lambda x: x % 2 == 0)
- lambda(my_list).filter(x: x % 2 == 0)
- lambda x: x % 2 == 0, my_list

×	In Python, can lambda functions have access to variables defined outside of the lambda expression?	0/1
•	No, lambda functions can only access their own arguments	×
0	Yes, lambda functions can access variables from the enclosing scope	
0	No, lambda functions have their own isolated scope	
0	Yes, lambda functions can access global variables.	
Corr	rect answer	
	Yes, lambda functions can access variables from the enclosing scope	
×	While opening a file with open() function what error we get if the file does not exist?	0/1
0	FileDoesNotExist	
0	FileNotPresentError	
0	FileNotFoundError	
•	FileNotFound	×
Corr	rect answer	
	FileNotFoundError	



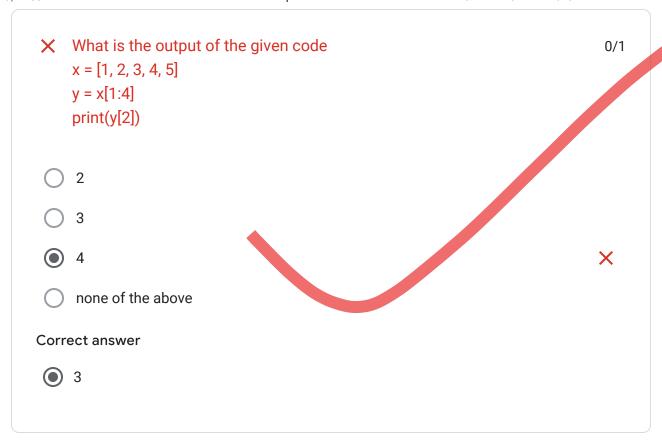


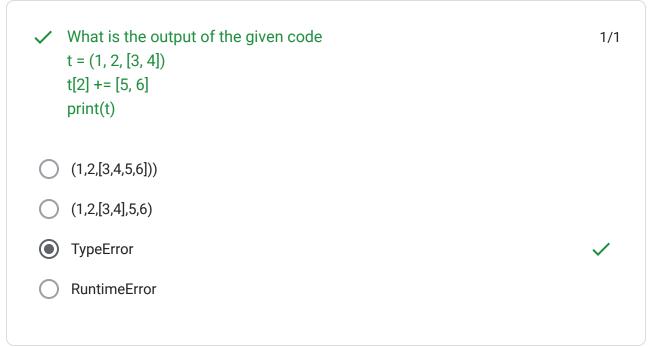
×	What is the output of this code snippet list=[0,1,1,1]def sum(list): sum=0 for i in range(0,len(list)) sum=sum+i return sum	0/1
0	6	
0	3	
0	4	
•	none of the above	×
Corr	ect answer	
•	6	
✓	What is the output for given code snippet def callFunc(n): sum=0 sum+n callFunc(n+1) return sum	1/1
0	n*n	
0	n*n*n	
•	RuntimeError	✓
0	none of the above	

\times What is the output of the following code: $x=(1,2,3,4) = x+(9,8,7) = x+(9$	0/1
(1,2,3,4,9,8,7)	
(9,8,7,1,2,3,4)	
(1,2,3,4,7,8,9)	
none of the above	×
Correct answer	
(1,2,3,4,9,8,7)	
What is the output of the given code : x=set('a') x.add('abc') print x	0.11
what is the output of the given code . x-set(a) x.add(abc) print x	0/1
('a','abc')	0/1
	0/1 ×
('a','abc')	
('a','abc') ('a','b','c')	
('a','abc') ('a','b','c') ('abc')	
('a','abc') ('a','b','c') ('abc') RuntimeError	

~	What should be at the argument of print to print the string s="abcd" for i in range (len(s)) print(argument)	1/1
0	print(i)	
0	print(i+1)	
•	print(s[i])	✓
0	none of the above	
×	What is the output of this dict= {'Name':'Zara','Age':7,'Class':'First'}print("dict['Name']:",dict['Name'])	0/1
	zara Name : zara dict['Name']: Zara	×
0	none of the above	
Corre	ect answer	
•	Name : zara	

~	What is the output of the given code $x = [10, [3.121, 40, [30, 'nick', 2.718]], 'harry']$ arr = $x[1][2][1]$ print(arr)	1/1
•	nick	✓
0	harry	
0	10	
0	40	
~	What is the output of the given code $a = \{10:1, 20:4, 30:9\}$ $b = a.pop(20)$ $print(b)$	1/1
0	Error	
0	NA	
•	4	✓
0	9	





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~	What is the output of the given code x = [1, 2, 3] y = (4, 5, 6) z = x + y print(z)	1/1
([1,2,3,(4,5,6)]	
	(4,5,6[1,2,3])	
(TYpeError	✓
	None of the above	
×	What is the output of the given code a = (i for i in range(5)) x = sum(a) print(x)	0/1
(10	
	5	
	16	
(None of the above	×
Co	prrect answer	
(10	

What is the value of x a = [10, 22, 30, 4, 5] b = [91, 81, 72, 61, 5] x=set(a) & set(b)	0/1
{10,20,30,4,5,91,81,72,61,5}	
[10,20,30,4,5,91,81,72,61]	×
(5)	
Correct answer	
(5)	
✓ What is the output of the given code x = {10,20,30,40} y = {20,40,60,80} z = x.difference(y) print(z)	1/1
(-10,-20,-30,-40)	
(20,40)	
{10,30}	✓
None of the above	

~	What is the output of the given code d = {'a': [1, 2,5,10,20], 'b': [3, 4,1]} if 5 in d['a']: print("yes") else: print("No")	1/1
0	No	
•	Yes	✓
0	TypeError	
0	RuntimeError	

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