

Curso > Week 5... > 9. Class... > Exercis...

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Exercise 4

Finger Exercises due Aug 5, 2020 20:30 -03

Exercise 4

7/7 points (graded)

ESTIMATED TIME TO COMPLETE: 12 minutes

Python supports a limited form of multiple inheritance, demonstrated in the following code:

```
class A(object):
    def __init__(self):
        self.a = 1
    def x(self):
        print("A.x")
    def y(self):
        print("A.y")
    def z(self):
        print("A.z")
class B(A):
    def __init__(self):
        A.__init__(self)
        self.a = 2
        self.b = 3
    def y(self):
        print("B.y")
    def z(self):
        print("B.z")
class C(object):
    def __init__(self):
        self.a = 4
        self.c = 5
    def y(self):
        print("C.y")
    def z(self):
        print("C.z")
class D(C, B):
    def __init__(self):
        C.__init__(self)
        B.__init__(self)
        self.d = 6
    def z(self):
        print("D.z")
```

Which __init__ methods are invoked and in which order is determined by the coding of the individual __init__ methods.

When resolving a reference to an attribute of an object that's an instance of class D, Python first searches the object's instance variables then uses a simple left-to-right, depth first search through the class hierarchy. In this case that would mean searching the class C, followed the class B and its superclasses (ie, class A, and then any superclasses it may have, et cetera).

With the definitions above if we define

```
obj = D()
```

then what is printed by each of the following statements?

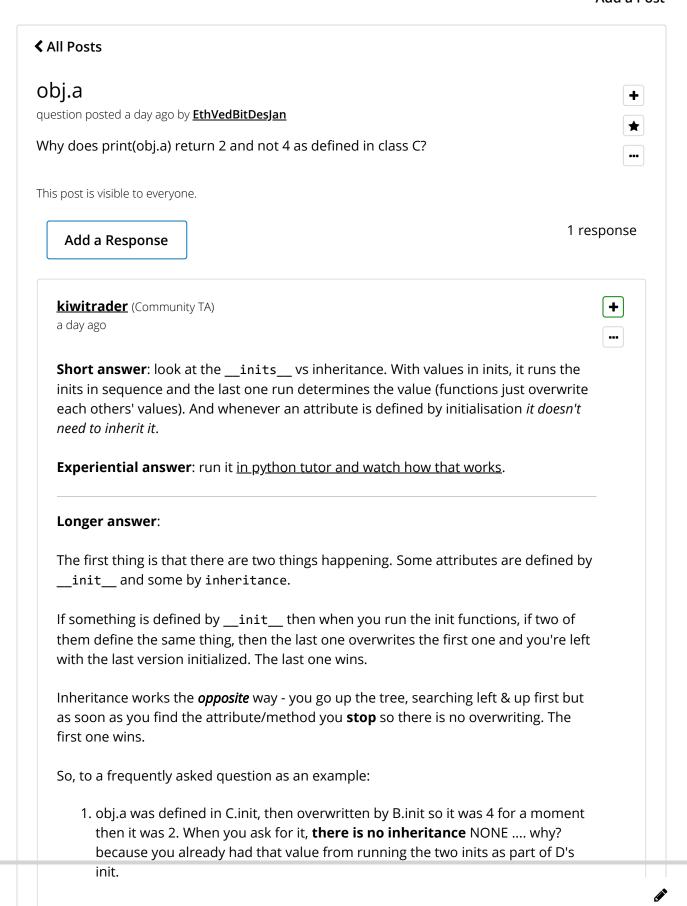
<pre>1. print(obj.a)</pre>	
2	✓ Answer: 2
2. print(obj.b)	
3	✓ Answer: 3
<pre>3. print(obj.c)</pre>	
5	✓ Answer: 5
4. print(obj.d)	
6	✓ Answer: 6
5. obj.x()	
A.x	✓ Answer: A.x
6. obj.y()	
C.y	✓ Answer: C.y
7. obj.z()	
D.z	✓ Answer: D.z
nviar	
Answers are displayed within the problem	Ā

Exercise 4

Topic: Lecture 9 / Exercise 4

Ocultar discussão

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	because the object was initialized with it. The second	one
inheritance.	tialization process so the interpreter had to use	
Make sense?		
	witrader! BTW, I hope you were long kiwi cuz the price h! <u>https://www.tridge.com/intelligences/kiwifruit</u>	•••
posted about 23 hours ago by <u>inc</u>	<u>ovakovic</u>	
Great explanation, thank you.		•••
posted about 21 hours ago by <u>Ug</u>	<u>gnetay</u>	
Thank you very much ! Very help	oful advice !	•••
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I think the explanation in the sta	atement ended up misleading us.	•••
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