

Curso > Week 6... > 12. Sea... > Exercis...

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Exercise 1

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

Exercise 1

10/11 points (graded)

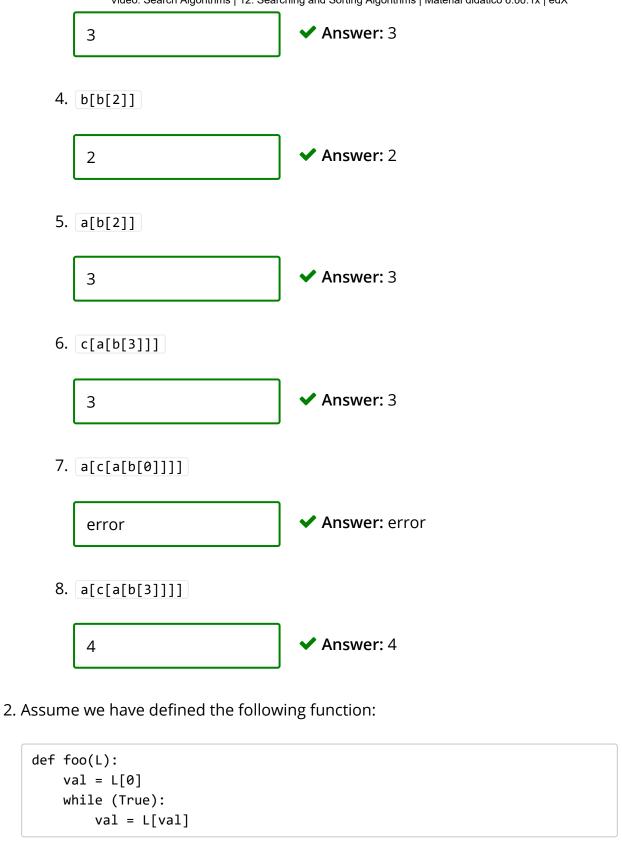
ESTIMATED TIME TO COMPLETE: 12 minutes

In this problem, we'll examine how indirection works. Consider the following definitions:

- 1. What is the value of the following expressions? If you think there will be an error, please type in 'error' (without quotes) in the input box.
 - 1. a[0]



- 2. b[1]
 - Answer: 0 0
- 3. a[a[1]]



```
def foo(L):
```

Which of the following statement(s) will result in an infinite loop?



Explanation:

The function foo first binds val to the 0th element of L, L[0]. Then, val is bound to element L[L[0]], then L[L[L[0]]], and so on. Calling foo on lists a and b results in an infinite loop - foo(a) traverses indicies 0->1->2->3->4->0 and foo(b) traverses indicies 0->3->4->1->0. foo(c) results in an error, because L[5] does not exist.

3. Consider the following code:

```
num = ???
L = [5, 0, 2, 4, 6, 3, 1]
val = 0
for i in range(0, num):
    val = L[L[val]]
print(val)
```

1. What is the smallest value that \[num \] can be such that the number 3 is printed?

<u> </u>		
<u> </u>		
<u></u> 3		
<u></u>		
Impossible		
✓		

2. Now, we redefine L to be:

L = [2, 0, 1, 5, 3, 4]

×

020	Video: Search Algorithms 12. Searching and Sorting Algorithms Material didático 6.00.1x edX						
	What is the smallest value that <code>num</code> can be such that the number 3 is printed?						
	<u> </u>						
	○ 3○ 5						
	✓						
When out. When	L = [5, 0, 2, 4, 6, 3, 1], we need to set num L = [2, 0, 1, 5, 3, 4], there is no way to get to set of the se	to the number 3 if we					
Exercise 1 Topic: Lecture 12	/ Exercise 1	Ocultar discussão					
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