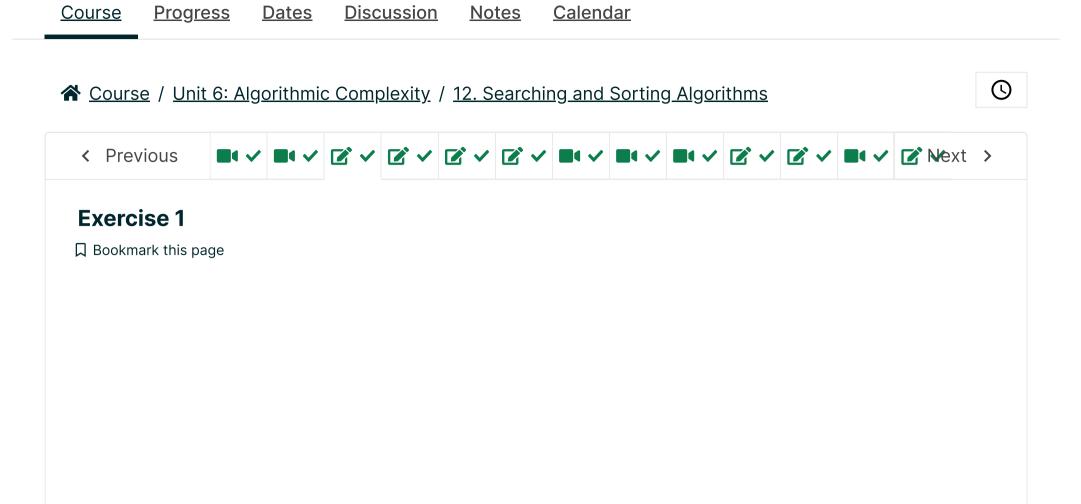
<u>Help</u>

shengtatng ~



Finger Exercises due Oct 27, 2022 07:30 +08 Completed

Exercise 1

11/11 points (graded)

ESTIMATED TIME TO COMPLETE: 12 minutes

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

```
a = [1, 2, 3, 4, 0]
b = [3, 0, 2, 4, 1]
c = [3, 2, 4, 1, 5]
```

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]	
	1	~
2.	b[1]	
	0	~
3.	a[a[1]]	
	3	~
4.	b[b[2]]	
	2	~
5.	a[b[2]]	
	3	~
6.	c[a[b[3]]]	
	3	~
7.	a[c[a[b[0]]]]	
	error	~
8.	a[c[a[b[3]]]]	

2. Assume we have defined the following function:

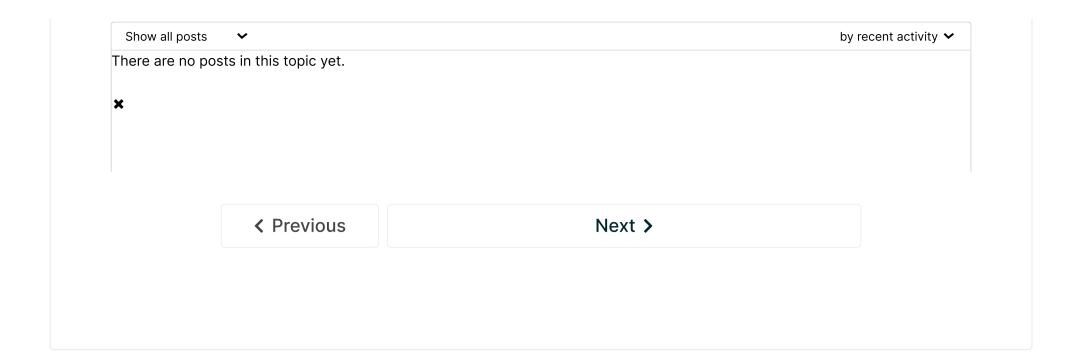
```
def foo(L):
    val = L[0]
    while (True):
        val = L[val]
```

4

Which of the following statement(s) will result in an infinite loop? foo(a) foo(b) foo(c) 3. Consider the following code: num = ???L = [5, 0, 2, 4, 6, 3, 1]val = 0for 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? 0 1 3 5 Impossible 2. Now, we redefine L to be: L = [2, 0, 1, 5, 3, 4]What is the smallest value that <code>num</code> can be such that the number 3 is printed? \bigcirc 0 () 3 () 5 Impossible Submit

Exercise 1

Hide Discussion



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