



CSC111-01_S14 INTRO COMP SCI TH PROGRAMMING

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Question 1

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Given the following Python list:

```
A = [ ( "a", "b"), (1, 2) ]
```

Is the following statement True or False?

Statement: **A is mutable**

Select one:

- True
- False

Question 2

Not yet answered
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Assume that we have a list called L1, and that it contains 1,000,000,000 integers. The integers are all the even numbers starting with 2 (2, 4, 6, 8, 10, etc) sorted in increasing order.

We also have 2 functions, f1() and f2() defined as shown below:

```
def f1( L1 ):
    L2 = L1
    if L2[0]==2:
        print( "Good" )
    else:
        print( "Bad" )

def f2( L1 ):
    L2 = L1[:]
    if L2[0]==2:
        print( "Good" )
    else:
        print( "Bad" )
```

We are going to pass L1 as a parameter to each function and measure its execution time. In other words, we call f1 and pass it L1. We call f2 and pass it L1. We measure how long it takes for f1 to run, and how long it takes f2 to run.

Check all the statements below that are true.

Select one:

- a. Both functions will take the same amount of time to execute.
- b. f1() will take longer to run
- c. f2() will take longer to run
- d. It is totally random. Sometimes f1() will take longer on L1, some other times f2() will take longer on L1.
- e. One of the functions will take longer, but we cannot infer which one it is.

Question 3

Not yet answered
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Assuming that the following program is run on a computer with enough memory to hold the large list, what will it print?



```
L = []
for i in range( 1000000000 ): # 1 followed by 9 zeros
    L.append( (i, i%2==0, i%3==0, i%5==0) )
print( L[-1][2] )
```

Select one:

- a. A large integer number
- b. True
- c. False
- d. a blank line
- e. A list of 4 items: an integer followed by 3 booleans

Question 4

Not yet answered
Marked out of 1.00

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```
L = [ 1, 2, 3, 4, 5, "elephant" ]
```

```
print( sum( L[0:2] ) )
```



What is the output of the program above?

Select one:

- a. There is no output. The program generates an error because one cannot sum() an integer and a string
- b. 15
- c. 3
- d. [1, 2, 3]
- e. 6

Question 5

Not yet answered
Marked out of 1.00

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In Python, writing

```
pair = "a", 3
```

creates the same variable pair as writing

```
pair = ( "a", 3 )
```

Select True to indicate that "Yes, these statements are equivalent, and False to indicate "No, they are not equivalent"

Select one:

- True
- False

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