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# L1 PROBLEM 2 (6/6 points)

# Keyword Assignment Exercise

1. Consider the function below:

```
def lotsOfParameters1(a,b,c,d,e):
    print a
    print b
    print c
    print d
    print e
```

• Which of the following function calls will result in an error?

```
    1. lotsOfParameters1()
    2. lotsOfParameters1(1, 2)
    3. lotsOfParameters1(1,e=5,d=4,c=3,b=2)
    4. lotsOfParameters1(e=5,a=1,d=4,b=2,c=3)
    5. lotsOfParameters1(a=5,b=1,c=4,d=2,3)
```

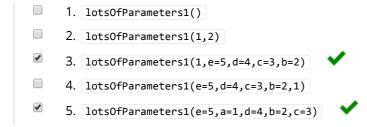
### **EXPLANATION:**

Choices 1, 2, and 5 will result in errors.

Choice 1 and Choice 2 do not provide values for enough of the arguments, so these calls give an error that states that the function call takes five arguments but 0 (in the case of Choice 1) or 2 (in the case of Choice 2) were given.

The reason why Choice 5 gives an error is because Python only lines up the parameters from the left side (ie the first ones given - like in Choice 3), but as soon as there is an out-of-order parameter, then it stops lining them up. So, in Choice 5, Python will \*not\* match the number 3 with the parameter e.

• Which of the following function calls will produce the same output as calling [lotsOfParameters1(1,2,3,4,5)]?



### **EXPLANATION:**

Choice 3 and Choice 5 will produce the same output.

Choice 4 results in an error, for the same reason that Choice 5 (in question 1, above) gave an error.

2. Consider the function below:

```
def lotsOfParameters2(a=1,b=2,c=3,d=4,e=5):
    print a
    print b
    print c
    print d
    print e
```

• Which of the following function calls will result in an error?

```
1. lotsOfParameters2()
2. lotsOfParameters2(1, 2)
3. lotsOfParameters2(1, c=2)
4. lotsOfParameters2(1, c=2, 3)
5. lotsOfParameters2(1, e=20, b=3)
6. lotsOfParameters2(1, e=20, b=3, a=10)
```

#### **EXPLANATION:**

Choice 4 and Choice 6 will result in an error.

The reason why Choice 4 gives an error is because Python only lines up the parameters from the left side (ie the first ones given - like in Choice 5), but as soon as there is an out-of-order parameter, then it stops lining them up. So, in Choice 4, Python will \*not\* match the number 3 with any argument. Besides, which one would it choose? Is that 3 supposed to be b, d, or e?

Choice 6 gives an error because the 1 has already lined up with parameter a, but then the call tries to define 'a=10', confusing Python.

• Which of the following function calls will produce the same output as calling [lotsOfParameters2(1,2,3,4,5)]?

```
    1. lotsOfParameters2()
    2. lotsOfParameters2(1,2,3,4)
    3. lotsOfParameters2(5,4,3,2,1)
```

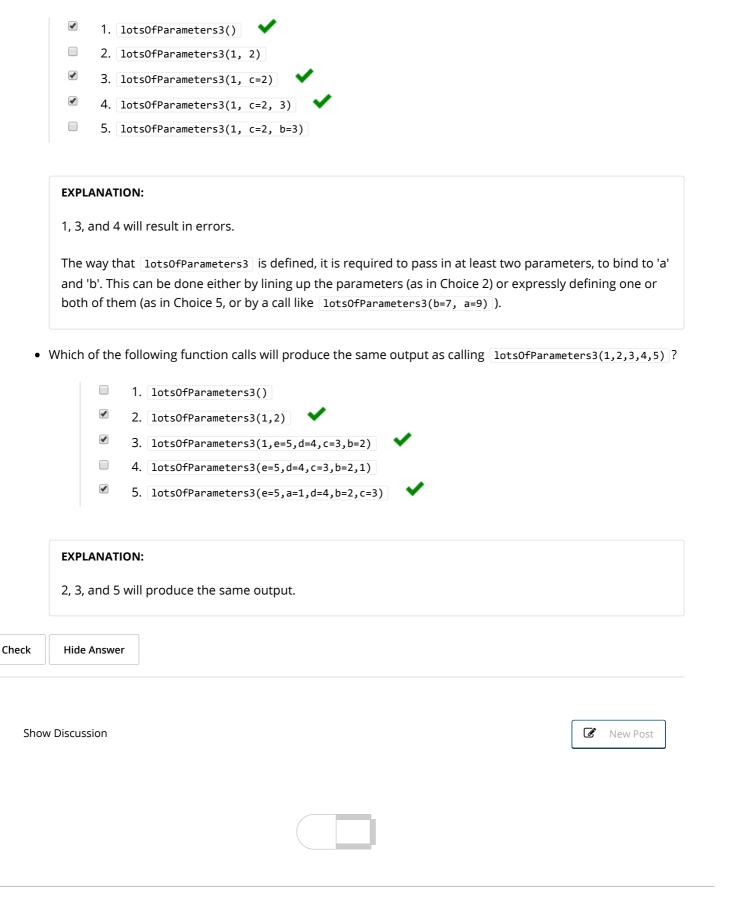
## **EXPLANATION:**

1 and 2 will produce the same output.

3. Consider the function below:

```
def lotsOfParameters3(a,b,c=3,d=4,e=5):
    print a
    print b
    print c
    print d
    print e
```

• Which of the following function calls will result in an error?





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