

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)` ?

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

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?

- ☒ 1. `lotsOfParameters3()` ✓
- ☐ 2. `lotsOfParameters3(1, 2)`
- ☒ 3. `lotsOfParameters3(1, c=2)` ✓
- ☒ 4. `lotsOfParameters3(1, c=2, 3)` ✓
- ☐ 5. `lotsOfParameters3(1, c=2, b=3)`

EXPLANATION:

1, 3, and 4 will result in errors.

The way that `lotsOfParameters3` is defined, it is required to pass in at least two parameters, to bind to 'a' and 'b'. This can be done either by lining up the parameters (as in Choice 2) or expressly defining one or both of them (as in Choice 5, or by a call like `lotsOfParameters3(b=7, a=9)`).

- Which of the following function calls will produce the same output as calling `lotsOfParameters3(1,2,3,4,5)` ?

- ☐ 1. `lotsOfParameters3()`
- ☒ 2. `lotsOfParameters3(1,2)` ✓
- ☒ 3. `lotsOfParameters3(1,e=5,d=4,c=3,b=2)` ✓
- ☐ 4. `lotsOfParameters3(e=5,d=4,c=3,b=2,1)`
- ☒ 5. `lotsOfParameters3(e=5,a=1,d=4,b=2,c=3)` ✓

EXPLANATION:

2, 3, and 5 will produce the same output.

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