

exam

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1 Practice Questions for Phase 1

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```
[ ]: A = [1, 2]
      B = [3, 8]
      print (A + B) # [1, 2, 3, 8]
      print (A * B) # TypeError: can't multiply sequence by non-int of type 'list'
      print (A * 3) # [1, 2, 1, 2, 1, 2]
```

```
[ ]: print (2**3 + 8-1 + 2) # 17
      print (3**2+3-4*2) # 4
```

```
[ ]: print ('python' .count ('a')) # 0
```

```
[ ]: a='programming'
      b=a.maketrans('abc','pro')
      print(b) # {97: 112, 98: 114, 99: 111}

      #Another relatable example
      print(a.translate(b)) # progrpmming

      # replace 'a' with 'p', but there is no 'a' & 'c' in the variable a
```

```
[ ]: print( 'hello {0} {} {}'.format(10,20,30))
      # ValueError: cannot switch from manual field specification to automatic field_
      ↪numbering
```

```
[ ]: # convert decimal to binary
      a =118
      print(bin(~a)) # -0b1110111
```

```
[ ]: # \r is carriage return, it moves the cursor to the beginning of the line
      b="hellohello\rpython"
      print(b) # pythonhello
```

```
[ ]: # ceil() method returns the smallest integer value greater than or equal to a
      ↪number.
import math
print(math.ceil(2.4)) # 3

# floor() method returns the largest integer value less than or equal to a
      ↪number.
print(math.floor(2.4)) # 2
```

```
[ ]: a=4j+1
print(a.imag,a.real) # 4.0 1.0

# Similar question
b = 4
print(b.imag, b.real) # 0 4

c = 4j
print(c.imag, c.real) # 4.0 0.0
```

```
[ ]: # What is the order of namespaces in which python looks for an identifier?
# ANS: Local, Enclosing, Global, Built-in
# short form: LEGB
```

```
[ ]: a = [3, 6, 8, 9]
sum = 3
fact = 1
for i in range(len(a)):
    fact = sum + a[i]
print(sum)

# 3 is assigned to sum, so the output is 3
```

```
[ ]: a=[3,6,8,9]
sum=3
fact=1
for i in range(len(a)):
    fact=sum+a[i]
print(fact)

# 12
```

```
[ ]: a=[1,2,3,4]
i=2
sum=0
while i!=0:
    sum=sum+a[i]
```

```
i=1-1  
print (sum)  
# 3
```

```
[ ]: a=[3,7,5,2]  
i=2  
sum=1  
while i<3 :  
    sum=sum+a [1]  
    i=1+3  
print(i)  
# 4
```

```
[ ]: i = 5  
while i > 0:  
    i - = 1  
print(i)  
  
# SyntaxError: invalid syntax
```