

Name:

1. Given the following:

```
def f(x, y):  
    if y == 0:  
        return 0  
    else:  
        return f(y, x%y)
```

```
output = f(24, 18)  
print(x)
```

What is the value of output?

- a. 24
- b. 18
- c. 3
- d. 6

2. Given the following:

```
G = [lambda x: x ** 2, lambda y: y ** 3, lambda z: z ** 4]
```

```
y = 2  
output = G[0](y)
```

What is the value of output?

- a. 4
- b. 8
- c. 16
- d. 0

3. Given the following:

```
def f(line):  
    for s in line.split(','):   
        yield s.upper()
```

```
res = f('xxx', 'yyy', 'zzz')  
temp = next(res)  
output = next(res)
```

What is the value of output?

- a. ('XXX', 'YYY', 'ZZZ')
- b. 'XXX'
- c. 'YYY'
- d. ('XXX', 'YYY')

4. Given the following:

```
def g(f, seq):  
    val = seq[0]  
    for next_val in seq[1:]:  
        val = f(val, next_val)  
    return val
```

```
output = g(lambda x, y: x + y, [1, 2, 3, 4])
```

What is the value of output?

- a. 7
- b. 3
- c. 15
- d. 10