

1.4 RAT

1. After running the following block of code:

```
>>> a = [1, 2, 3]
>>> b = a
>>> b[1] = 4
```

A. What is the final value of **a**?

B. Which of the following are **True**?

- a) **a is a**
- b) **a == a**
- c) **a is a[:]**
- d) **a == a[:]**
- e) **a is b**
- f) **a == b**
- g) **b is a[:]**
- h) **b == a[:]**

2. If I run:

```
>>> ofile = open('output.txt')
>>> ofile.write("Monty Python")
>>> ofile.close()
```

I get an **IOError**. What do I need to change to make that work (so I can write the string "Monty Python" to the file 'output.txt')?

3. Which of these is preferred:

```
A. >>> for i, j in enumerate(x):  
...     print i, j
```

```
B. >>> while i < len(x):  
...     print i, x[i]  
...     i += 1
```

Why?

4. What will the following code output:

```
>>> print str  
>>> str = 'foo'  
>>> def fun():  
...     str = 'bar'  
...     print str  
...  
>>> fun()  
>>> print str
```

Hint: recall the LGB rule.