

Name:

Extra Practice - Python

Consider the following code for questions 1, 2, and 3.

```
x = 0
y = 1
var = (x != y)
print(var + var)
```

1. What data type is the expression: $(x \neq y)$?
2. What is the value of $(x \neq y)$? So, what is the value of `var`?
3. What is the final output of the code?
Hint: Given your answer to question 2, how does the computer store `var`? Remember that computers store all information as binary, meaning only zeros and ones.

We give you a lot of room to work out each of the next two questions.

4. What is the output of the following code?
-

```
x = 1
biggest_value = x

for i in range(100):
    for j in range(100):
        y = x*i*j
        if y > biggest_value:
            biggest_value = y

print(biggest_value)
```

5. Why does the following code have an error?

```
s = "Intermediate 1 is the best ORMC class"
```

```
for i in range(len(s)):  
    print(s[i])  
    s = s[:-1]
```
