

CMSC 150: Introduction to Computing
Tracing Assignment #5

Name: _____

In each of the following programs (except the bonus), there is an error. Please indicate the error, specify how to fix the problem, and state the output for a corrected program. For the bonus, please trace like normal.

1. (2 points)

```
class A:
    def __init__(self, i = 10):
        self._i = i
    def getI():
        return self._i

x = A()
y = A(11)
print(x.getI(), y.getI())
```

Error:

Appropriate Fix:

Expected Output:

2. (2 points)

```
class B:
    def __init__(self, j):
        self._j = j
    def _foo(self, j):
        return self._j ** 0.5

x = B(16)
print(x._foo())
```

Error:

Appropriate Fix:

Expected Output:

3. (2 points)

```
class C:  
    def __init__(self):  
        self._k = 0  
    def bar(self):  
        print(self._k)  
  
C.bar()
```

Error:

Appropriate Fix:

Expected Output:

4. (2 points)

```
class D:  
    def cat(self):  
        print(self._l)  
  
x = D("Hello")  
x.cat()
```

Error:

Appropriate Fix:

Expected Output:

5. (2 points)

```
class E:
    def __init__(self, m):
        self.m = m
    def dog(self):
        print(m)

y = E(2)
y.m = 3
y.dog()
```

Error:

Appropriate Fix:

Expected Output:

6. (1 point) Bonus.

```
class F:
    def __init__(self, n):
        self.__n = n
    def getN(self):
        return self.__n
    def setN(self, n):
        self.__n = n

x = F(15)
y = x
y.setN(10)
print(x.getN())
```

Output: