COSC 1336 Homework 8

Relevant reading: Chapter 11

Due: Dec. 6, 2:30 pm

(Late date: Dec. 13, 2:30 pm) 40 Points

	10 1 011100
Problem 1. [12 points] Fill in the blank	
a. An object is to a class as a cookie	is to a
b. An object is to a class as a	is to a blueprint.
c. A(n) is a component of	
d. A(n) is a procedure that	an object performs.
e. When you instantiate a class, you	create $a(n)$
f. Classes package together both	and
Problem 2. [8 points] For each of the fo	ollowing, mark the letter of any true answer. More than one
1. By doing which of the following ca	n you hide a class's attributes from code outside the class?
a. begin the attribute's name wit	h self.
b. begin the attribute's name wit	h two underscores
c. begin the name of the attribut	e with private
d. Python has no mechanism for our are not directly accessed from	loing this; it is only through convention that a class's attributes outside the class.
2. The is automatically of	alled when an object is created.
ainit method	cstr method
b. init method	d. constructor
3. If a class has a method namedst	tr_, which of these is a way to call the method?
a. call it like any other method:	objectstr_()
b. pass an instance of the class to	the built-in str function
c. the method is automatically ca	alled when the object is created
d. pass an instance of the class to	the built-in print function
4. A(n) method gets the val	ue of a data attribute but does not change it.
a. retriever	c. mutator
b. constructor	d. accessor
5. A(n) method stores a value	ue in a data attribute or changes its value in some other way.

Problem 3. [20 points] Consider the following Month class, and then read the instructions below it.

c. mutator

d. accessor

a. modifier

b. constructor

Fill in the Python interpreter transcript below to show what the interpreter would say for each of the missing responses. The missing responses are indicated with a number that you should use to identify your answers. Assume that the transcript is executed in the order it is shown (that is, modifications to the variables persist after they are made).

I recommend that you try to fill in the missing responses based on your understanding of Python and classes, and then verify your answers with the interpreter. If you find that you are wrong about something, make sure you take the time to figure out why!

```
>>> m1 = Month(6)
>>> m1
<month.Month object at 0x4e5550>
>>> str(m1)
1. # what does the interpreter say here?
>>> m2 = Month()
>>> print(m2)
2.
>>> print(Month.names[4:7])
3.
>>> m2.num = 7
>>> print(m1.num, m1, m2.num, m2)
4.
>>> m2.names[5] = "Czerwiec"
>>> print(m1, m2)
5.
>>> print(m1.names[4:7], m2.names[4:7])
6.
```

```
>>> Month.names[1] = "Luty"
```

7.

8.

9.

10.