

## L11 PROBLEM 1 (5/5 points)

1. What method is called when an object is created?

- ☐ self
- ☐ obj.self
- ☐ init
- ☒ \_\_init\_\_ ✓
- ☐ new

**EXPLANATION:**

The `__init__` method is called whenever an object is created. For more on object creation, see [this chapter](http://www.greenteapress.com/thinkpython/html/thinkpython018.html#toc186) (<http://www.greenteapress.com/thinkpython/html/thinkpython018.html#toc186>) of How To Think Like A Computer Scientist.

2. If you have an object instance, `obj`, and you want to call its `doSomething()` method (assuming it has one), how would you do this? (write the line of code you would use)

`obj.doSomething()`**Answer:** `obj.doSomething()`

3. True or False? An object's attributes must be defined in the object's `__init__` method.

- ☐ True
- ☒ False ✓

**EXPLANATION:**

An object's attributes are variables that can be used throughout the entire object, regardless of the method in which it is first defined. However, it is customary to define attributes within the `__init__` method for many reasons. Primarily this is to ensure all attributes are properly initialized. Because the `__init__` method is called when an object is created, if attributes are created in the `__init__` method they will be initialized properly (and thus not throw any errors) when they are referenced later on.

4. The following code starts the definition of a class called `Address`. The class needs to have two *attributes*: `number` and `streetName`. Please add in the two lines of code that will create these attributes from the appropriate passed in parameters.

```
class Address(object):
    def __init__(self, number, streetName):
        # Line 1: Creating a number attribute
        # Line 2: Creating a streetName attribute
```

- What is the correct expression for `# Line 1`?

```
self.number = number
```

- What is the correct expression for # Line 2 ?

```
self.streetName = streetName
```

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**Answer:** self.number = number

**Answer:** self.streetName = streetName

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