MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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L11 PROBLEM 1 (5/5 points)

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

	self	
\bigcirc	obj.self	
\bigcirc	init	
•	init	~
	new	

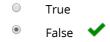
EXPLANATION:

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) 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.



EXPLANATION:

An object's attributes are variables that can be used 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 <code>__init__</code> method for many reasons. Primarily this is to ensure all attributes are properly initialized. Because the <code>__init__</code> method is called when an object is created, if attributes are created in the <code>__init__</code> 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	Answer: self.number = number
г	Vhat is the correct express self.streetName = street	Answer: self.streetName = streetName
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