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**Python 3: The Python Environment  
Lesson 3, Quiz 1**

Handed in: 4 Jun 2015 11:39:41PM Graded: 5 Jun 2015 10:56:19PM

**Question 1:**

What is the difference between an iterator and an iterable?

**Your Answer:**

magic method: \_\_iter\_\_()

**Mentor Comments:**

both iterables e.g. lists, and iterators (any generator object) have \_\_iter\_\_

In the case of an iterator, the job of \_\_iter\_\_ is simply to return self, as we have an iterator already

But that's merely a method for hatching an iterator from an iterable. Actually moving along the iterator's "necklace" requires the other magic method in the iterator's protocol.

**Question 2:**

What is a generator function and what is its advantage?

**Your Answer:**

already answered

**Mentor Comments:**

*none*

**Question 3:**

Internally, what type of exception does old-style Iteration throw?

1. AttributeError
2. IndexError
3. StopIteration
4. None of the above

**Your Answer:**

already answered

**Mentor Comments:**

*none*

**Question 4:**

Internally, what type of exception does new-style Iteration throw?

1. AttributeError
2. IndexError
3. StopIteration
4. None of the above

**Your Answer:**

already answered

**Mentor Comments:**

*none*

**Overall Comments:**

Q1 has a different better answer. See comments.

-Kirby

**Grade:**

Try Again

Your instructor would like you to work on this quiz. Be sure to hand in your corrections!

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