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

Handed in: 3 Jun 2015 01:12:40AM Graded: 4 Jun 2015 10:35:41PM

**Question 1:**

What is the difference between an iterator and an iterable?

##### Your Answer:

An iterator is the object that does the iterating and an iterable is the object that you iterate over

##### Mentor Comments:

what magic method do iterators have that iterables do not, that is used to advance from yield to yield internally, or to nudge a generator

expression through its values?

**Question 2:**

What is a generator function and what is its advantage?

##### Your Answer:

it is a function that returns a special type of iterator called a generator. the advantage is that it is very memory efficient for large sequences because it only generates values on demand, eliminating the need to generate sequences and store them in memory. it remembers the previous state and continues calculations where it left on until a condition is exhausted

##### 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:

2. IndexError

##### 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:

3. StopIteration

##### Mentor Comments:

*none*

### Overall Comments:

Specific difference sought on Q1: a magic method.

-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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