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# Python 3: The Python Environment Lesson 3, Quiz 2

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**Question 1:**

With a single line of code, create a memory-efficient iterator from which a **for** loop could obtain a million numbers. What is the technique called?

##### Your Answer:

gen = (x for x in range(1000000))

technique: generator expression

##### Mentor Comments:

*none*

**Question 2:**

What is the difference between list comprehension and a generator expression?

##### Your Answer:

aesthetically the list comp uses brackets '[]' while the generator expression uses parentheses '()'. programatically, you only see the individual values of generator expressions when you call the generator using iteration. list comps are iterables, generator expressions are iterators

##### Mentor Comments:

*none*

**Question 3:**

What is the tool used in the correct answer to question 1 above?

1. list comprehension
2. tuple
3. generator expression
4. list generator
5. None of the above

##### Your Answer:

3. generator expression

##### Mentor Comments:

*none*

### Overall Comments:

Excellent.

-Kirby

### Grade:

Great

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