<u>Dates</u>

<u>Help</u>

shengtatng ~

★ Course / Unit 5: Object Oriented Programming / 10. An Extended Example

**Discussion** 

()



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#### **Exercise 2**

<u>Course</u>

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### Exercise 2

10/10 points (graded)

#### **ESTIMATED TIME TO COMPLETE: 18 minutes**

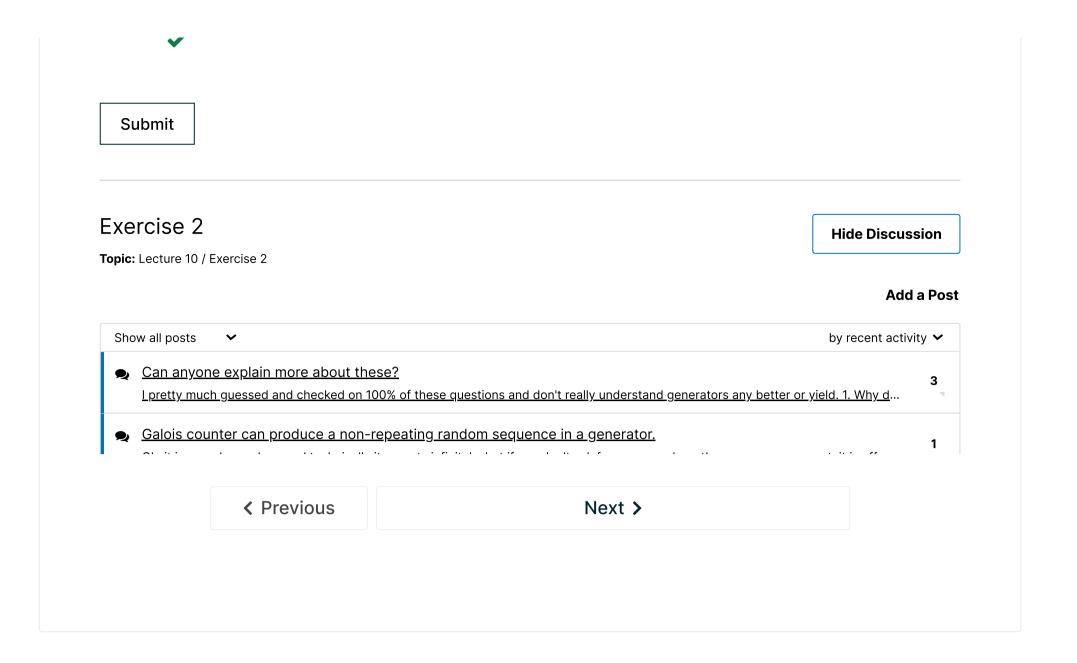
This problem will ask a series of questions about generators.

ing a generator, instead of defining a function (that uses any type of construct we've learned about, ot generators)?
Return 1000000 prime numbers
Print every 10th prime number, until you've printed 20 of them
Keep printing the prime number until the user stops the program
Everything that can be done with generator can be done with a function
procedure that has a yield statement is a generator.
True
False
rocedure has only one <code>yield</code> statement, but that statement will never be executed, then the dure is not a generator.  True
False
were to use a generator to iterate over a million numbers, how many numbers do we need to store in ory at once?
1
2
1000
1000000
1000000  Don't need to store anything in memory

For the following tasks, would it be best to use a generator, a standard function, or either?

1. Finding the nth Fibonacci number

	Generator	
	Standard function	
	Either a generator or standard function is fine	
~		
2. Printii	ng out an unbounded sequence of Fibonacci numbers	
	Generator	
	Standard function	
	Either a generator or standard function is fine	
~		
	ng out a bounded sequence of prime numbers, where the prime numbers are successively covision by smaller primes	omputed
	Generator	
	Standard function	
	Either a generator or standard function is fine	
~		
	ng out an unbounded sequence of prime numbers, where the prime numbers are successive uted by division by smaller primes	ly
	Generator	
	Standard function	
	Either a generator or standard function is fine	
~		
. Findir	ng the score of a word from the 6.00x Word Game of Pset 4	
	Generator	
	Standard function	
	Either a generator or standard function is fine	
~		
. Iterat	ing over a sequence of numbers in a random order, where no number is repeated	
$\bigcirc$	Generator	
	Standard function	
	Either a generator or standard function is fine	
		2





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