## Congratulations! You passed!

Grade received 100% To pass 100% or higher

Go to next item

1.	What is the main difference between tuples and lists?	1/1 point	
	Multiple values in a tuple can be retrieved by using a slice, for example, tuple[2:4].		
	<ul> <li>Tuples allow you to find the number of times an item appears in the tuple using the count() method, for example: tuple.count('test').</li> </ul>		
	Tuples are immutable.		
	Tuples are ordered which means you have to refer to items by index number, for example: tuple[3].		
	<ul> <li>Correct         Correct! Once you create a tuple, you cannot change the data in it.     </li> </ul>		
2			
۷.	You are testing some code:	1/1 point	
	<pre>&gt;&gt;&gt; variable = {'zero', 'one', 'two', 'three'} &gt;&gt;&gt; variable[1] Traceback (most recent call last):    File "<stdin>", line 1, in <module> TypeError: 'set' object is not subscriptable &gt;&gt;&gt;</module></stdin></pre>		
	Why did the command fail?		
	O Python has not been installed correctly. You need to reinstall.		
	You created a set. Sets are not ordered and cannot be referred to by index number.		
	O You used the wrong syntax. This is a tuple and tuples use an alphabet based index. You should have typed variable[b].		
	This is a dictionary. You should have referred to the item using the key.		
	○ Correct  Correct! Sets do not have an order. They're used when order is not important and typically used with statements like print(variable in set) where you just need to test if the item is in the set, not get it out of the set.		
3.	What Python structures usually use ranges?	1/1 point	
	O if statements		
	● Loops		
	O Logical operators		
	O Identity operators		
	Correct Correct! Ranges are usually used to loop or iterate through a process a number of times. You typically see them used with for loops.		
4.	You are experimenting with some code:	1/1 point	
	>>> variable = { 'first': 1, 'second': 2, 'third': 3 } >>>		
	You need to get the value "1". What should you type?		
	O You can't. This is a set and sets are not ordered. The values can't be retrieved using an index based syntax.		
	variable['first']		
	O variable[1]		
	O variable[0]		



 $Correct!\ This is\ a\ dictionary.\ Dictionaries\ use\ a\ key: value\ structure.\ You\ retrieve\ the\ value\ by\ using\ the\ syntax\ dictionary [key].$ 



