Sequency things in Python

	Lists	Strings	Tuples	Sets	Dictionaries
Declaration of constants	Use square brackets: a = [1,2,3,4,5] For an empty list: a = []	Use quotes: a = "Kflortnic" For an empty string: a = ""	Use parentheses (parens optional): a = (1,2,3,4,5) For an empty tuple: a = ()	Use curly brackets $a = \{1, 2, 3, 4\}$ For an empty set: $a = set()$	<pre>Use curly brackets & colons a = {1:"one", 5:"five"} For an empty dictionary: a = {}</pre>
Order matters	Yes	Yes	Yes	No	Yes (colon-wise) No (comma-wise)
Length function	len (a) returns number of elements in the list	len (a) returns number of characters in the string	len (a) returns number of items in the tuple	len (a) returns number of elements in the set	len (a) returns number of pairs in the dictionary
Random access through indexing	a [2] returns the third element of the list	a [2] returns the third character of the string	a [2] returns the third item of the tuple	Since order does not matter, a [2] generates an error	a[2] will generate an error, but a[5] will return the string "five" in this case.
Creating subsequences through slicers	a[1:4] returns the list [2,3,4]	a[1:4] returns the string flo	a[1:4] returns the tuple (2,3,4)	Slicers cannot be used	Slicers cannot be used
Assignment through indexing	a[2] = 9 will set the third element to 9	Generates an error	Generates an error	Generates an error	<pre>a[2] = "nine" will add a new dictionary item, while a[5] = "nine" reassigns key 5 to the value "nine"</pre>
Adding elements	a.append(9) will add a 9 to the end of the list; a.extend([8,9]) will add two elements to the end of the list	a = a + "!!" will add to the string	a = a + (6, 7) will add items to the tuple	a.add(9) will add a 9 to the set. (note: if 9 is already in the set, this statement does nothing); a = a.union(b) will add set b items to set a	a [2] = "two" will add an element to the dictionary if no key of 2 exists yet
Deleting elements	del a[2] will delete the third element	<pre>a = a[:2]+a[3:] will effectively delete the third character</pre>	<pre>a = a[:2]+a[3:] will effectively delete the third item</pre>	a.discard(2) will remove the item 2 (not second item) from the set	del a[5] will delete the item with key 5 from the dictionary
Inserting elements	a.insert (2,2.5) will insert the value 2.5 after the second element	Use slicers: a=a[:4]+"u"+a[4:] inserts a "u" to get "Kflourtnic"	Use slicers: a=a[:2]+(2.5)+a[2:] inserts 2.5 after the second item	Since order does not matter, this is not different from adding	Since order does not matter, this is not different from adding
Membership test	(3 in a) will be true if the list contains the element 3	contains letter "k"	(3 in a) will be true if the tuple contains the item 3	(3 in a) will be true if the set contains the element 3	(3 in a) will be true if the dictionary contains a pair with a key of 3
Other neat things	sort, index, count	find, format, zfill, isdigit	index, count	issubset, intersection	already really cool