





Lists: A Sequence of Data Elements						
element		daysInWeek				
"Sun"	"Mon"	"Tue"	"Wed"	"Thu"	"Fri"	"Sat"
0	1	2	3	4	5	6
Position/ index len(daysInWeek) is 7 in the list • Elements in lists can be <i>any</i> data type						
What does does this look similar to, in structure?						
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Lis	List Operations			
Sin	Similar to operations for strings			
	Concatenation	<seq> + <seq></seq></seq>		
	Repetition	<seq> * <int-expr></int-expr></seq>		
	Indexing	<seq>[<int-expr>]</int-expr></seq>		
	Length	len(<seq>)</seq>		
	Slicing	<seq>[:]</seq>		
	Iteration	<pre>for <var> in <seq>:</seq></var></pre>		
	Membership	<expr> in <seq></seq></expr>		
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0	1	2	3	4	5	6
Position in the list				len(da	ysIn₩ee	ek) is 7
• <listname>[<int_expr>] > Similar to accessing characters in a string</int_expr></listname>						
>daysInWeek[-1] is "Sat"						
>daysInWeek[0] is "Sun"						
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List Methods			
Method Name	Functionality		
<list>.append(x)</list>	Add element <i>x</i> to the end		
<list>.sort()</list>	Sort the list		
<list>.reverse()</list>	Reverse the list		
<list>.index(<i>x</i>)</list>	Returns the index of the first occurrence of <i>x</i> , Error if <i>x</i> is not in the list		
<list>.insert(<i>i</i>, <i>x</i>)</list>	Insert x into list at index i		
<list>.count(x)</list>	Returns the number of occurrences of <i>x</i> in list		
<list>.remove(x)</list>	Deletes the first occurrence of x in list		
<list>.pop(<i>i</i>)</list>	Deletes the <i>i</i> th element of the list and returns its value		
Note: methods do not return a copy of the list			
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