Cheatography

Python3 Lists: Everything you need to know Cheat Sheet by Nima (nimakarimian) via cheatography.com/113429/cs/23511/

Summing and multiplying	ALL & ANY	ENUMERATE
nums = [1, 2, 3] print(nums + [4, 5, 6]) print(nums * 3)	<pre>nums = [55, 44, 33, 22, 11] if all([i > 5 for i in nums]): print("All larger than 5")</pre>	<pre>nums = [55, 44 for v in enume print(v)</pre>
Lists can be added and multiplied in the same way as strings.	<pre>if any([i % 2 == 0 for i in nums]): print("At least one is even")</pre>	(0, 55)
"insert" FUNCTION words = ["Python", "fun"]	Often used in conditional statements, all and any take a list as an argument, and return True if all or any (respectively) of their arguments evaluate to True (and False otherwise).	<pre>(1, 44) (2, 33) (3, 22)</pre>
<pre>index = 1 words.insert(index, "is") print(words) >>> ['Python', 'is', 'fun'] >>> insert method is similar to append, except that it allows you to insert a new item at any position in the list, as opposed to just at the end.</pre>	IN and NOT operator	(4, 11) The function enu
	words = ["spam", "egg", "spam", "sausage"] print("spam" in words) #RETURNS TRUE	through the values ously.
	<pre>nums = [1, 2, 3] print(not 4 in nums) #RETURNS TRUE print(4 not in nums)</pre>	List comprehens cubes = [i**3 print(cubes)
	The in operator is also used to determine whether or not a string is a substring of another string.	>>> [0, 1, 8, 27, >>>
"range" FUNCTION	"index" FUNCTION	A list compre
<pre>numbers = list(range(5, 20, 2)) print(numbers)</pre>	<pre>letters = ['p', 'q', 'r', 's', 'p', 'u'] print(letters.index('r')) print(letters.index('z'))</pre>	<pre>an if statemen on values in t evens=[i2 for == 0]</pre>
>>> [5, 7, 9, 11, 13, 15, 17, 19]	>>> 2	<pre>print(evens) >>> [01626]</pre>
>>>		[0, 4, 16, 36
* The range function creates a sequential list of	ValueError: 'z' is not in list	>>>
* The range function creates a sequential list of numbers. *If range is called with one argument, it produces an object with values from 0 to that argument.		Trying to create a
 * The range function creates a sequential list of numbers. *If range is called with one argument, it produces an object with values from 0 to that argument. If it is called with two arguments, it produces values from the first to the second. *range can have a third argument, which determines the interval of the sequence produced 	>>> index method finds the first occurrence of a list item and returns its	>>> Trying to create a result in a Memory

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"append" FUNCTION	List slicing 2
nums = [1, 2, 3]	squares = [0, 1, 4, 9, 16, 25, 36, 49, 64, 81]
nums.append(4)	<pre>print(squares[::2])</pre>
print(nums)	<pre>print(squares[2:8:3]).</pre>
>>>	>>>
[1, 2, 3, 4]	[0, 4, 16, 36, 64]
>>>	[4, 25]
This adds an item to the end of an	>>>
existing list.	
	Negative values can be used in list slicing (and normal list indexing). When ne
"Len" FUNCTION	for the first and second values in a slice (or a normal index), they count from
nums = [1, 3, 5, 2, 4]	squares = [0, 1, 4, 9, 16, 25, 36, 49, 64, 81]
print(len(nums))	print(squares[1:-1])
princ(ren(nums))	>>>
	[1, 4, 9, 16, 25, 36, 49, 64]
>>>	>>>
5	If a negative value is used for the step, the slice is done backwards.
>>>	Using [::-1] as a slice is a common and idiomatic way to reverse a list.
	List slices can also have a third number, representing the step, to include only alternate values in the slice.
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List slicing 1

squares = [0, 1, 4, 9, 16, 25, 36, 49, 64, 81] print(squares[2:6]) print(squares[3:8]) ------[4, 9, 16, 25] [9, 16, 25, 36, 49]

Basic list slicing involves indexing a list with two colon-separated integers.



By **Nima** (nimakarimian) cheatography.com/nimakarimian/ www.nimakarimian.ir Published 26th June, 2020. Last updated 12th July, 2020. Page 2 of 2. Sponsored by **Readab** Measure your website https://readable.com