

This documentation was generated from the Python documentation available by typing `help(list)` in the Python shell. In the documentation found here the variables `x` and `y` are references to lists. The official Python 3 documentation is at <http://docs.python.org/3/>.

Method	Returns	Comments
<code>list()</code>	list	Returns a new empty list. You can also use <code>[]</code> to initialize a new empty list
<code>list(sequence)</code>	list	Returns new list initialized from sequence's items
<code>[item [,item]+]</code>	list	Writing a number of comma-separated items in square brackets constructs a new list of those items
<code>x+y</code>	list	Returns a new list containing the concatenation of the items in <code>x</code> and <code>y</code>
<code>e in x</code>	bool	Returns True if the item <code>e</code> is in <code>x</code> and False otherwise
<code>del x[i]</code>		Deletes the item at index <code>i</code> in <code>x</code> . This is not an expression and does not return a value
<code>x==y</code>	bool	Returns True if <code>x</code> and <code>y</code> contain the same number of items and each of those corresponding items are pairwise equal
<code>x>=y</code>	bool	Returns True if <code>x</code> is greater than or equal to <code>y</code> according to a lexicographical ordering of the elements in <code>x</code> and <code>y</code> . If <code>x</code> and <code>y</code> have different lengths their items are <code>==</code> up to the shortest length, then this returns True if <code>x</code> is longer than <code>y</code>
<code>x<=y</code>	bool	Returns True if <code>x</code> is lexicographically before <code>y</code> or equal to <code>y</code> and False otherwise
<code>x>y</code>	bool	Returns True if <code>x</code> is lexicographically after <code>y</code> and False otherwise
<code>x<y</code>	bool	Returns True if <code>x</code> is lexicographically before <code>y</code> and False otherwise
<code>x!=y</code>	bool	Returns True if <code>x</code> and <code>y</code> are of different length or if some item of <code>x</code> is not <code>==</code> to some item of <code>y</code> . Otherwise it returns False
<code>x[i]</code>	item	Returns the item at index <code>i</code> of <code>x</code>

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Method	Returns	Comments
<code>x[[i]:[j]]</code>	list	Returns the slice of items starting at index <code>i</code> and extending to index <code>j-1</code> in the string. If <code>i</code> is omitted then the slice begins at index 0. If <code>j</code> is omitted then the slice extends to the end of the list. If <code>i</code> is negative then it returns the slice starting at index <code>len(x)+i</code> (and likewise for the slice ending at <code>j</code>)
<code>x[i]=e</code>		Assigns the position at index <code>i</code> the value of <code>e</code> in <code>x</code> . The list <code>x</code> must already have an item at index <code>i</code> before this assignment occurs. In other words, assigning an item to a list in this way will not extend the length of the list to accommodate it
<code>x+=y</code>		This mutates the list <code>x</code> to append the items in <code>y</code>
<code>x*=i</code>		This mutates the list <code>x</code> to be <code>i</code> copies of the original <code>x</code>
<code>iter(x)</code>	iterator	Returns an iterator over <code>x</code>
<code>len(x)</code>	int	Returns the number of items in <code>x</code>
<code>x*i</code>	list	Returns a new list with the items of <code>x</code> repeated <code>i</code> times
<code>i*x</code>	list	Returns a new list with the items of <code>x</code> repeated <code>i</code> times
<code>repr(x)</code>	str	Returns a string representation of <code>x</code>
<code>x.append(e)</code>	None	This mutates the value of <code>x</code> to add <code>e</code> as its last element. The function returns None, but the return value is irrelevant since it mutates <code>x</code>
<code>x.count(e)</code>	int	Returns the number of occurrences of <code>e</code> in <code>x</code> by using <code>==</code> equality
<code>x.extend(iter)</code>	None	Mutates <code>x</code> by appending elements from the iterable, <code>iter</code>
<code>x.index(e,[i],[j])</code>	int	Returns the first index of an element that <code>== e</code> between the the start index, <code>i</code> , and the stop index, <code>j-1</code> . It raises <code>ValueError</code> if the value is not present in the specified sequence. If <code>j</code> is omitted then it searches to the end of the list. If <code>i</code> is omitted then it searches from the beginning of the list
<code>x.insert(i, e)</code>	None	Insert <code>e</code> before index <code>i</code> in <code>x</code> , mutating <code>x</code>
<code>x.pop([index])</code>	item	Remove and return the item at <code>index</code> . If <code>index</code> is omitted then the item at <code>len(x)-1</code> is removed. The <code>pop</code> method returns the item and mutates <code>x</code> . It raises <code>IndexError</code> if list is empty or <code>index</code> is out of range
<code>x.remove(e)</code>	None	remove first occurrence of <code>e</code> in <code>x</code> , mutating <code>x</code> . It raises <code>ValueError</code> if the value is not present
<code>x.reverse()</code>	None	Reverses all the items in <code>x</code> , mutating <code>x</code>
<code>x.sort()</code>	None	Sorts all the items of <code>x</code> according to their natural ordering as determined by the item's <code>__cmp__</code> method, mutating <code>x</code> . Two keyword parameters are possible: <code>key</code> and <code>reverse</code> . If <code>reverse=True</code> is specified, then the result of sorting will have the list in reverse of the natural ordering. If <code>key=f</code> is specified then <code>f</code> must be a function that takes an item of <code>x</code> and returns the value of that item that should be used as the key when sorting