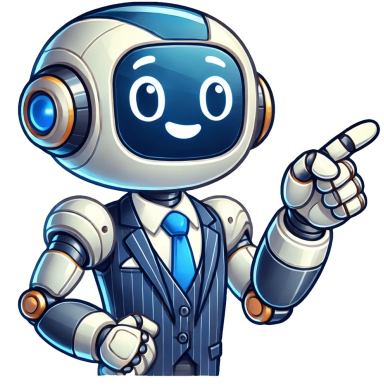


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Python3 Python sort() sorted() sort() sorted() # numbers = [3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5]# sort() numbers.sort()print(" sort() :", numbers)# sorted() sorted_numbers = sorted(numbers)print(" sorted() .", sorted_numbers) numbers.sort(isort) numbers sorted(numbers)sorted() numbers sort() : [1, 1, 2, 3, 3, 4, 5, 5, 5, 6, 9] sorted() : [1, 1, 2, 3, 3, 4, 5, 5, 5, 6, 9] Python3 Python sort() sort() list.sort(cmp=None, key=None, reverse=False) cmp --, key -- reverse -- reverse = True reverse = False sort() aList = ['123', 'Google', 'Runoob', 'Taobao', 'Facebook']; aList.sort();print("List : ")print(aList) List : ['123', 'Facebook', 'Google', 'Runoob', 'Taobao'] vowels = ['e', 'a', 'u', 'o', 'o', 'i'] vowels.sort(reverse=True) print(":")print(vowels) ['u', 'o', 'i', 'e', 'a'] def takeSecond(elem): return elem[1] random = [(2, 2), (3, 4), (4, 1), (1, 3)] random.sort(key=takeSecond) print("")print(random) [(4, 1), (2, 2), (1, 3), (3, 4)] Python Linux Linux ls list directory contents) ls [-altAFR] [name, ...] -a --all -A --almost-all ... -h --human-readable -k KBMB+tr --reverse -tS -SR --recursive-F --classify /-s --color-color=auto-i --inode node -n --numeric-uid-gid UID GID-d --directory -l-l-m-Q --quote-name-group-directories-first-time-style=+%Y-%m-%d ls -l # ls -a # ls -lh # ls -l # ls -R # ls -l/etc/passwd ls -la ls -lShr /var/log ls -lhR /var/log ls -ld /etc ls -ltr # ls /bin dev lib media net root srv upload wwwboot etc lib64 misc opt sbin sys usrhome lost+found mnt proc selinux tmp var /bin : ls -lR /bin \ ls "my file.txt" # "my file.txt"ls my file.txt # "my file.txt"ls --filename # "-filename" ls * ? [...] ls *txt # .txtls file?txt # file?txt?ls [abc]*.txt # abc.txt s : ls -ltr s* ls -l -d l c b s p ls -l9 rwx r w x - -rw-r--r-- 1 user group 4096 Feb 21 12:00 file.txt file.txt ls -lt | head -5 5 ls | wc -l () ls --color ls ls Linux ls man ls Linux Python3 Python set Python list 1 = [1, 2, 1, 4, 6]print(list(set(list 1))) [1, 2, 4, 6] set() # def remove_duplicates(lst): seen = set() unique_list = [] for item in lst: if item not in seen: seen.add(item) unique_list.append(item) return unique_list# original_list = [1, 2, 2, 3, 4, 4, 5]unique_list = remove_duplicates(original_list)print(unique_list) # : [1, 2, 3, 4, 5] dict.fromkeys(dict.fromkeys()) Python 3.7 # dict.fromkeys(def remove_duplicates(lst): return list(dict.fromkeys(lst))# original_list = [1, 2, 2, 3, 4, 4, 5]unique_list = remove_duplicates(original_list)print(unique_list) # : [1, 2, 3, 4, 5]unique_list = [1, 2, 3, 4, 5]list 1 = [1, 2, 1, 4, 6]list 2 = [7, 8, 2, 1]print(list(set(list 1) ^ set(list 2))) set() ^ [4, 6, 7, 8] ^ Python3 Python - 01 Python6 Python Python list1 = ['physics', 'chemistry', 1997, 2000]list2 = [1, 2, 3, 4, 5]list3 = ['a', 'b', 'c', 'd'] 0 list1 = ['physics', 'chemistry', 1997, 2000]list2 = [1, 2, 3, 4, 5, 6, 7] print("list1[0]: ", list1[0])print("list2[1:5]: ", list2[1:5])list1[0]: physicslist2[1:5]: [2, 3, 4, 5] append() list = [] list.append('Google') list.append('Runoob')print list append() ['Google', 'Runoob'] del list1 = ['physics', 'chemistry', 1997, 2000] print list1del list1[2]print "After deleting value at index 2 : "print list1 ['physics', 'chemistry', 1997, 2000]After deleting value at index 2 ['physics', 'chemistry', 2000] remove() Python + * * * Python len([1, 2, 3])3 [1, 2, 3] + [4, 5, 6][1, 2, 3, 4, 5, 6] ['Hi!'] * 4 ['Hi!', 'Hi!', 'Hi!', 'Hi!'] 3 in [1, 2, 3]True for x in [1, 2, 3]: print x,1 2 3 Python Python >>> L = ['Google', 'Runoob', 'Taobao']>>> L[2]'Taobao'>>> L[-2]'Runoob'>>> L[-1:] ['Runoob', 'Taobao'] Python L[2]'Taobao' L[-2]'Runoob' L[-1:] ['Runoob', 'Taobao'] Python& Python: Python: Ollama CLI ollama --help Large language model runnerUsage: ollama [flags] ollama [command]Available Commands: serve Start ollama create Create a model from a Modelfile show Show information for a model run Run a model stop Stop a running model pull Pull a model from a registry push Push a model to a registry list List models ps List running models cp Copy a model rm Remove a model help Help about any commandFlags: -h, --help help for ollama -v, --version Show version information 1 ollama [flags]flags ollama ollama [command] ollama 2 serve ollama create Modelfile show run stop pullregistry push list ps cp rm help 3Flags -h, --help ollama -v, --version 1. ollama pull ollama pull llama2 ollama run ollama run llama2 ollama list ollama rm ollama rm llama2 2. ollama create -f ollama create my-llama2 -f ./Modelfile ollama cp ollama cp llama2 my-llama2-copy ollama push ollama push my-llama2 3. Ollama Ollama ollama serve Ollama Ollama ollama stop Ollama Ollama ollama restart 4. ollama --help Ollama ollama version Ollama Ollama ollama update Ollama ollama logs Ollama ollama clean 5. ollama show ollama show llama2 ollama deps ollama deps llama2 ollama config ollama config llama2 6. ollama export ollama export llama2 llama2.tar ollama import ollama import llama2.tar 7. Ollama ollama system ollama resources ollama resources llama2 8. ollama perf ollama perf llama2 9. ollama history ollama history llama2 10. ollama status ollama status llama2 Python 0 1 Python 6 Python Python list1 = ['Google', 'Runoob', 1997, 2000]list2 = [1, 2, 3, 4, 5]list3 = ['a', 'b', 'c', 'd']list4 = ['red', 'green', 'blue', 'yellow', 'white', 'black'] 0 1 #!/usr/bin/python3list = ['red', 'green', 'blue', 'yellow', 'white', 'black']print(list[0])print(list[1])print(list[2]) redgreenblue -1 -2 #!/usr/bin/python3list = ['red', 'green', 'blue', 'yellow', 'white', 'black']print(list[-1])print(list[-2])print(list[-3]) blackwhiteyellow [] #!/usr/bin/python3nums = [10, 20, 30, 40, 50, 60, 70, 80, 90]print(nums[0:4]) [10, 20, 30, 40] #!/usr/bin/python3list = ['Google', 'Runoob', 'Zhihu', 'Taobao', 'Wiki']# print ("list[1]: ", list[1])# print ("list[1:-2]: ", list[1:-2])list1: Runooblist[1:-2]: ['Runoob', 'Zhihu'] append() #!/usr/bin/python3list = ['Google', 'Runoob', 1997, 2000]print (" : ", list[2])list2 = 2001print (" : ", list[2])list1 = ['Google', 'Runoob', 'Taobao']list1.append('Baidu')print (" : ", list1) append() : 1997 : 2001 : ['Google', 'Runoob', 'Taobao', 'Baidu'] del #!/usr/bin/python3list = ['Google', 'Runoob', 'Taobao', 'Baidu'] del list[2]print (" : ", list)del list[2]print (" : ", list) : ['Google', 'Runoob', 1997, 2000] remove() Python + * * * Python len([1, 2, 3])3 [1, 2, 3] + [4, 5, 6][1, 2, 3, 4, 5, 6] ['Hi!'] * 4 ['Hi!', 'Hi!', 'Hi!', 'Hi!'] 3 in [1, 2, 3]True for x in [1, 2, 3]: print(x, end=" ")1 2 3 Python Python L=['Google', 'Runoob', 'Taobao'] Python L[2]'Taobao' L[-2]'Runoob': count from the right L[1:] ['Runoob', 'Taobao'] >>> L=['Google', 'Runoob', 'Taobao']>>> L[2]'Taobao'>>> L[-2]'Runoob'>>> L[1:] ['Runoob', 'Taobao']>>> >>> squares = [1, 4, 9, 16, 25]>>> squares += [36, 49, 64, 81, 100]>>> squares[1, 4, 9, 16, 25, 36, 49, 64, 81, 100]>>> >>> a = ['a', 'b', 'c']>>> n = [1, 2, 3]>>> x = [a, n]>>> x[['a', 'b', 'c'], [1, 2, 3]]>>> x[0]['a', 'b', 'c']>>> x[0][1]'b' operator eq Python operator # operator import operatora = [1, 2]b = [2, 3]c = [2, 3]print("operator.eq(a,b): ", operator.eq(a,b))print("operator.eq(c,b): ", operator.eq(c,b)) operator.eq(a,b): Falseoperator.eq(c,b): True Python& Python: Python: Java ArrayList ArrayList AbstractList List ArrayList java.util import java.util.ArrayList; // ArrayList ArrayList objectName =new ArrayList(); // E: objectName objectName: ArrayList ArrayList ArrayList add() : import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); System.out.println(sites); } } [Google, Runoob, Taobao, Weibo] ArrayList get() import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); System.out.println(sites.get(1)); } } 0 Runoob ArrayList set() set(int index, E element) indexelement import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); // System.out.println(sites); } } [Google, Runoob, Wiki, Weibo] ArrayList remove() import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); sites.remove(3); // System.out.println(sites); } } [Google, Runoob, Taobao] ArrayList size() import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); // System.out.println(sites.size()); } } 4 for import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); for (String i : sites) { System.out.println(i); } } } GoogleRunoobTaobaoWeibo for-each import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Google"); sites.add("Runoob"); sites.add("Taobao"); sites.add("Weibo"); // System.out.println(i); } } } 10152025 ArrayList Collections java.util sort() import java.util.ArrayList;import java.util.Collections; // Collections public class RunoobTest { public static void main(String[] args) { ArrayList sites = new ArrayList(); sites.add("Wiki"); sites.add("Taobao"); sites.add("Runoob"); sites.add("Weibo"); Collections.sort(sites); // for (String i : sites) { System.out.println(i); } } } GoogleRunoobTaobaoWeiboWiki import java.util.ArrayList;import java.util.Collections; // Collections public class RunoobTest { public static void main(String[] args) { ArrayList myNumbers = new ArrayList(); myNumbers.add(33); myNumbers.add(15); myNumbers.add(20); myNumbers.add(12); Collections.sort(myNumbers); // for (int i : myNumbers) { System.out.println(i); } } } 81215203334 Java ArrayList Java ArrayList API Java Python3 Python [] : my_list = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9] my_list = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]# 2 5sub_list = my_list[2:5]print(sub_list) my_list[2:5]2 5 2 5 5 sub_list[2, 3, 4] Python3 C++ C++ STL #include std::list mylist; T mylist.push_back(value); mylist.pop_back(); mylist.erase(iterator); mylist.front(); mylist.back(); for (auto it = mylist.begin(); it != mylist.end(); ++it) #include #include int main() { std::list lst1; // list std::list lst2(5); // 5list std::list lst3(5, 10); // 510 std::list lst4 = {1, 2, 3, 4}; // return 0; #include #include int main() { // std::list numbers; // numbers.push_back(10); numbers.push_back(20); numbers.push_back(30); // std::cout

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