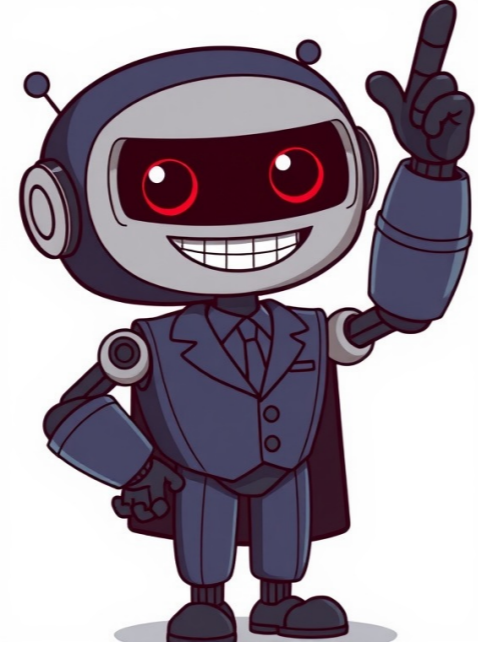


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Python3 Python for squares = [x**2 for x in range(10)] x**2 x for x in range(10) x 0 9 [x**2 for x in range(10)] 0 9 [0, 1, 4, 9, 16, 25, 36, 49, 64, 81] Python3 Java ArrayList ArrayList AbstractList List ArrayList java.util import java.util.ArrayList; // 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 (int i = 0; i < sites.size(); i++) { System.out.println(sites.get(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"); for (String i : sites) { System.out.println(i); } } GoogleRunoobTaobaoWeibo ArrayList String booleanBoolean byteByte shortShort intInteger longLong floatFloat doubleDouble charCharacter BigIntegerBigDecimal BigInteger ArrayList li=new ArrayList(); // ArrayList li= new ArrayList(); // ArrayList ( Integer ); import java.util.ArrayList;public class RunoobTest { public static void main(String[] args) { ArrayList myNumbers = new ArrayList(); myNumbers.add(10); myNumbers.add(15); myNumbers.add(20); myNumbers.add(25); for (int i : myNumbers) { 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("Taobao"); sites.add("Wiki"); 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(34); myNumbers.add(8); myNumbers.add(12); Collections.sort(myNumbers); // for (int i : myNumbers) { System.out.println(i); } } 81215203334 Java ArrayList Java ArrayList API Java 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: Python3 Python 1: reverse() reverse() my_list = [1, 2, 3, 4, 5]my_list.reverse()print(my_list) my_list.reverse() reverse() my_list print(my_list) [5, 4, 3, 2, 1] 2: [::-1] my_list = [1, 2, 3, 4, 5]reversed_list = my_list[::-1]print(reversed_list) my_list[::-1]-1 print(reversed_list) [5, 4, 3, 2, 1] 3: reversed() reversed() list() my_list = [1, 2, 3, 4, 5]reversed_list = list(reversed(my_list))print(reversed_list) reversed_list print(reversed_list) reversed_list reversed(my_list) list(reversed(my_list)) print(reversed_list) [5, 4, 3, 2, 1] 4: my_list = [1, 2, 3, 4, 5]reversed_list = []for i in range(len(my_list) - 1, -1, -1): reversed_list.append(my_list[i])print(reversed_list) for i in range(len(my_list) - 1, -1, -1): reversed_list.append(my_list[i])print(reversed_list) [5, 4, 3, 2, 1] 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', 'i'] vowels.sort(reverse=True) 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(random) [(4, 1), (2, 2), (1, 3), (3, 4)] Python 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[-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]) list[1]: Runooblist[1:-2]: ['Runoob', 'Zhihu'] append() #!/usr/bin/python3list = ['Google', 'Runoob', 1997, 2000]print (" ", list[2])list[2] = 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 #!/usr/bin/python3list = ['Google', 'Runoob', 1997, 2000]print (" ", list)del list[2]print (" ", list) ['Google', 'Runoob', 1997, 2000] ; ['Google', 'Runoob', 1997, 2000] ; ['Google', 'Runoob', 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[0]>>> x[1] ['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: 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 numbers; // numbers.push_back(10); numbers.push_back(20); numbers.push_back(30); // std::cout 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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