Unit 4 - Lesson 6 - List Methods About this unit List Methods List Methods Unit • 100% completed List Methods - Python Assessment

List Methods About this unit List Methods Overview of List methods Overview of List methods Question Write a program to reverse a given List Question



```
Explorer
                                                                                                            Listmeth...
                                                                              1342 ALM 2 -
35.1.2. Overview of List methods
                                                                                                                    #write your code here
6. count(element): It is used to count the occurrences of a specified element within a list.
                                                                                                                    list1 = input ("data1: ")
                                                                                                            2
                                                                                                        list1 = list1.split(",")
  x = ['a', 'b', 'a', 'c', 'd', 'e', 'a']
                                                                                                                    element = input ("element: ")
                                                                                                             4
  x.count('a')
                                                                                                                    list1.append(element)
                                                                                                             5
                                                                                                                    print ("after append:", list1)
                                                                                                                    list2 = input ("data2: ")
                                                                                                                    list2= list2.split(",")
                                                                                                            8
7. sort(key = None, reverse = False): It is used to sort the elements of a list in ascending order. It
                                                                                                            9
                                                                                                                    list1.append(list2)
modifies the original list in-place and does not return a new list. If the parameter reverse = True, then
                                                                                                                    print ("after append:", list1)
the list is sorted in descending order.
                                                                                                           10
                                                                                                                   list1.extend(list2)
                                                                                                           11
 x = ['z', 'f', 'e', 'a', 'b', 'g', 't']
                                                                                                                    print("after extending:", list1)
                                                                                                           12
 x.sort()
                                                                                                           13
 print(x)
  ['a', 'b', 'e', 'f', 'g', 't', 'z']
  x.sort(key = None, reverse = True)
 ['z', 't', 'g', 'f', 'e', 'b', 'a']
                                                                                                             Average time
                                                                                                                              Maximum time
                                                                                                                                                  2 out of 2 shown test case
                                                                                                             0.014 s
                                                                                                                             0.015 s
8. reverse(): It is used to reverse the order of elements of a list in place
                                                                                                                                                  2 out of 2 hidden test case
                                                                                                             14.00 ms
                                                                                                                              15.00 ms
  x = ['z', 'f', 'e', 'a', 'b', 'g', 't']
  x.reverse()
                                                                                                             Test case 1 15 ms
  print(x)
  ['t', 'g', 'b', 'a', 'e', 'f', 'z']
                                                                                                              Expected output
                                                                                                                                                            Actual output
                                                                                                              data1: Python, Java
                                                                                                                                                            data1: Python, Jav.
                                                                                                              element: Perl
                                                                                                                                                            element: Perl
9. copy(): It is used to create a shallow copy of a list.
                                                                                                                                                            after append: ['Pyr
                                                                                                              after append: ['Python', 'Java', 'Perl']
                                                                                                              data2: Swift, Django, R programming
                                                                                                                                                            data2: Swift, Djang
                                                                                                                                                            after append: ['Pyt
                                                                                                              after append: ['Python', 'Java', 'Perl', ['Swif
                                                                                                                                                            t', 'Django', 'R pr
                                                                                                              t', 'Django', 'R programming']]
    Sample Test Cases
```

>_ Terminal

Test cases



















