1. Write a Python program to sum all the items in a list. Go to the editor

Click me to see the sample solution

2. Write a Python program to multiplies all the items in a list. Go to the editor

Click me to see the sample solution

3. Write a Python program to get the largest number from a list. Go to the editor

Click me to see the sample solution

4. Write a Python program to get the smallest number from a list. Go to the editor

Click me to see the sample solution

5. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings. Go to the editor

Sample List : ['abc', 'xyz', 'aba', '1221']

Expected Result : 2

Click me to see the sample solution

6. Write a Python program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples. Go to the editor

Sample List : [(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]

Expected Result : [(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]

Click me to see the sample solution

7. Write a Python program to remove duplicates from a list. Go to the editor

Click me to see the sample solution

8. Write a Python program to check a list is empty or not. Go to the editor

Click me to see the sample solution

9. Write a Python program to clone or copy a list. Go to the editor

Click me to see the sample solution

10. Write a Python program to find the list of words that are longer than n from a given list of words. Go to the editor

Click me to see the sample solution

11. Write a Python function that takes two lists and returns True if they have at least one common member. Go to the editor

Click me to see the sample solution

12. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements. Go to the editor

Sample List : ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

Expected Output : ['Green', 'White', 'Black']

Click me to see the sample solution

13. Write a Python program to generate a 3*4*6 3D array whose each element is *. Go to the editor

Click me to see the sample solution

14. Write a Python program to print the numbers of a specified list after removing even numbers from it. Go to the editor

Click me to see the sample solution

17. Write a Python program to generate and print a list except for the first 5 elements, where the values are square of numbers between 1 and 30 (both included). Go to the editor

Click me to see the sample solution

18. Write a Python program to generate all permutations of a list in Python. Go to the editor

Click me to see the sample solution

19. Write a Python program to get the difference between the two lists. Go to the editor

Click me to see the sample solution

20. Write a Python program access the index of a list. Go to the editor

Click me to see the sample solution

21. Write a Python program to convert a list of characters into a string. Go to the editor

Click me to see the sample solution

22. Write a Python program to find the index of an item in a specified list. Go to the editor

Click me to see the sample solution

23. Write a Python program to flatten a shallow list. Go to the editor

Click me to see the sample solution

24. Write a Python program to append a list to the second list. Go to the editor

Click me to see the sample solution

25. Write a Python program to select an item randomly from a list. Go to the editor

Click me to see the sample solution

26. Write a python program to check whether two lists are circularly identical. Go to the editor

Click me to see the sample solution

27. Write a Python program to find the second smallest number in a list. Go to the editor

Click me to see the sample solution

28. Write a Python program to find the second largest number in a list. Go to the editor

Click me to see the sample solution

29. Write a Python program to get unique values from a list. Go to the editor

Click me to see the sample solution

30. Write a Python program to get the frequency of the elements in a list. Go to the editor

Click me to see the sample solution

31. Write a Python program to count the number of elements in a list within a specified range. Go to the editor

Click me to see the sample solution

32. Write a Python program to check whether a list contains a sublist. Go to the editor

Click me to see the sample solution

33. Write a Python program to generate all sublists of a list. Go to the editor

Click me to see the sample solution

34. Write a Python program using Sieve of Eratosthenes method for computing primes upto a specified number. Go to the editor

Note: In mathematics, the sieve of Eratosthenes, (Ancient Greek: κόσκινον Ἐρατοσθένους, kóskinon Eratosthénous) one of a number of prime number sieves, is a simple, ancient algorithm for finding all prime numbers up to any given limit.

Click me to see the sample solution

35. Write a Python program to create a list by concatenating a given list which range goes from 1 to n. Go to the editor

Sample list : ['p', 'q']

n =5

Sample Output : ['p1', 'q1', 'p2', 'q2', 'p3', 'q3', 'p4', 'q4', 'p5', 'q5']

Click me to see the sample solution

36. Write a Python program to get variable unique identification number or string. Go to the editor

Click me to see the sample solution

37. Write a Python program to find common items from two lists. Go to the editor

Click me to see the sample solution

38. Write a Python program to change the position of every n-th value with the (n+1)th in a list. Go to the editor

Sample list: [0,1,2,3,4,5]

Expected Output: [1, 0, 3, 2, 5, 4]

Click me to see the sample solution

39. Write a Python program to convert a list of multiple integers into a single integer. Go to the editor

Sample list: [11, 33, 50]

Expected Output: 113350

Click me to see the sample solution

40. Write a Python program to split a list based on first character of word. Go to the editor

Click me to see the sample solution

41. Write a Python program to create multiple lists. Go to the editor

Click me to see the sample solution

42. Write a Python program to find missing and additional values in two lists. Go to the editor

Sample data : Missing values in second list: b,a,c

Additional values in second list: g,h

Click me to see the sample solution

43. Write a Python program to split a list into different variables. Go to the editor

Click me to see the sample solution

44. Write a Python program to generate groups of five consecutive numbers in a list. Go to the editor

Click me to see the sample solution

45. Write a Python program to convert a pair of values into a sorted unique array. Go to the editor

Click me to see the sample solution

46. Write a Python program to select the odd items of a list. Go to the editor

Click me to see the sample solution

47. Write a Python program to insert an element before each element of a list. Go to the editor

Click me to see the sample solution

48. Write a Python program to print a nested lists (each list on a new line) using the print() function. Go to the editor

Click me to see the sample solution

49. Write a Python program to convert list to list of dictionaries. Go to the editor

Sample lists: ["Black", "Red", "Maroon", "Yellow"], ["#000000", "#FF0000", "#800000", "#FFFF00"]

Expected Output: [{'color_name': 'Black', 'color_code': '#000000'}, {'color_name': 'Red', 'color_code': '#FF0000'}, {'color_name': 'Maroon', 'color_code': '#800000'}, {'color_name': 'Yellow', 'color_code': '#FFFF00'}]

Click me to see the sample solution

50. Write a Python program to sort a list of nested dictionaries. Go to the editor

Click me to see the sample solution

51. Write a Python program to split a list every Nth element. Go to the editor

Sample list: ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n']

Expected Output: [['a', 'd', 'g', 'j', 'm'], ['b', 'e', 'h', 'k', 'n'], ['c', 'f', 'i', 'l']]

Click me to see the sample solution

52. Write a Python program to compute the difference between two lists. Go to the editor

Sample data: ["red", "orange", "green", "blue", "white"], ["black", "yellow", "green", "blue"]

Expected Output:

Color1-Color2: ['white', 'orange', 'red']

Color2-Color1: ['black', 'yellow']

Click me to see the sample solution

53. Write a Python program to create a list with infinite elements. Go to the editor

Click me to see the sample solution

54. Write a Python program to concatenate elements of a list. Go to the editor

Click me to see the sample solution

55. Write a Python program to remove key values pairs from a list of dictionaries. Go to the editor

Click me to see the sample solution

56. Write a Python program to convert a string to a list. Go to the editor

Click me to see the sample solution

57. Write a Python program to check whether all items of a list is equal to a given string. Go to the editor

Click me to see the sample solution

58. Write a Python program to replace the last element in a list with another list. Go to the editor

Sample data : [1, 3, 5, 7, 9, 10], [2, 4, 6, 8]

Expected Output: [1, 3, 5, 7, 9, 2, 4, 6, 8]

Click me to see the sample solution

59. Write a Python program to check whether the n-th element exists in a given list. Go to the editor

Click me to see the sample solution

60. Write a Python program to find a tuple, the smallest second index value from a list of tuples. Go to the editor

Click me to see the sample solution

61. Write a Python program to create a list of empty dictionaries. Go to the editor

Click me to see the sample solution

62. Write a Python program to print a list of space-separated elements. Go to the editor

Click me to see the sample solution

63. Write a Python program to insert a given string at the beginning of all items in a list. Go to the editor

Sample list : [1,2,3,4], string : emp

Expected output : ['emp1', 'emp2', 'emp3', 'emp4']

Click me to see the sample solution

64. Write a Python program to iterate over two lists simultaneously. Go to the editor

Click me to see the sample solution

65. Write a Python program to move all zero digits to end of a given list of numbers. Go to the editor

Expected output:

Original list:

[3, 4, 0, 0, 0, 6, 2, 0, 6, 7, 6, 0, 0, 0, 9, 10, 7, 4, 4, 5, 3, 0, 0, 2, 9, 7, 1]

Move all zero digits to end of the said list of numbers:

[3, 4, 6, 2, 6, 7, 6, 9, 10, 7, 4, 4, 5, 3, 2, 9, 7, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0]

Click me to see the sample solution

66. Write a Python program to find the list in a list of lists whose sum of elements is the highest. Go to the editor

Sample lists: [1,2,3], [4,5,6], [10,11,12], [7,8,9]

Expected Output: [10, 11, 12]

Click me to see the sample solution

67. Write a Python program to find all the values in a list are greater than a specified number. Go to the editor

Click me to see the sample solution

68. Write a Python program to extend a list without append. Go to the editor

Sample data: [10, 20, 30]

[40, 50, 60]

Expected output : [40, 50, 60, 10, 20, 30]

Click me to see the sample solution

69. Write a Python program to remove duplicates from a list of lists. Go to the editor

Sample list : [[10, 20], [40], [30, 56, 25], [10, 20], [33], [40]]

New List : [[10, 20], [30, 56, 25], [33], [40]]

Click me to see the sample solution

70. Write a Python program to get the depth of a dictionary. Go to the editor

Expected Output:

Original list:

['abcd', 'abc', 'bcd', 'bkie', 'cder', 'cdsw', 'sdfsd', 'dagfa', 'acjd']

Items start with a from the said list:

['abcd', 'abc', 'acjd']

Items start with d from the said list:

['dagfa']

Items start with w from the said list:

[]

Click me to see the sample solution

71. Write a Python program to check whether all dictionaries in a list are empty or not. Go to the editor

Sample list : [{},{},{}]

Return value : True

Sample list : [{1,2},{},{}]

Return value : False

Click me to see the sample solution

72. Write a Python program to flatten a given nested list structure. Go to the editor

Original list: [0, 10, [20, 30], 40, 50, [60, 70, 80], [90, 100, 110, 120]]

Flatten list:

[0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120]

Click me to see the sample solution

73. Write a Python program to remove consecutive duplicates of a given list. Go to the editor

Original list:

[0, 0, 1, 2, 3, 4, 4, 5, 6, 6, 6, 7, 8, 9, 4, 4]

After removing consecutive duplicates:

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 4]

Click me to see the sample solution

74. Write a Python program to pack consecutive duplicates of a given list elements into sublists. Go to the editor

Original list:

[0, 0, 1, 2, 3, 4, 4, 5, 6, 6, 6, 7, 8, 9, 4, 4]

After packing consecutive duplicates of the said list elements into sublists:

[[0, 0], [1], [2], [3], [4, 4], [5], [6, 6, 6], [7], [8], [9], [4, 4]]

Click me to see the sample solution

75. Write a Python program to create a list reflecting the run-length encoding from a given list of integers or a given list of characters. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4.3, 5, 1]

List reflecting the run-length encoding from the said list:

[[2, 1], [1, 2], [1, 3], [1, 4], [1, 4.3], [1, 5], [1, 1]]

Original String:

automatically

List reflecting the run-length encoding from the said string:

[[1, 'a'], [1, 'u'], [1, 't'], [1, 'o'], [1, 'm'], [1, 'a'], [1, 't'], [1, 'i'], [1, 'c'], [1, 'a'], [2, 'l'], [1, 'y']]

Click me to see the sample solution

76. Write a Python program to create a list reflecting the modified run-length encoding from a given list of integers or a given list of characters. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

List reflecting the modified run-length encoding from the said list:

[[2, 1], 2, 3, [2, 4], 5, 1]

Original String:

aabcddddadnss

List reflecting the modified run-length encoding from the said string:

[[2, 'a'], 'b', 'c', [4, 'd'], 'a', 'd', 'n', [2, 's']]

Click me to see the sample solution

77. Write a Python program to decode a run-length encoded given list. Go to the editor

Original encoded list:

[[2, 1], 2, 3, [2, 4], 5, 1]

Decode a run-length encoded said list:

[1, 1, 2, 3, 4, 4, 5, 1]

Click me to see the sample solution

78. Write a Python program to split a given list into two parts where the length of the first part of the list is given. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

Length of the first part of the list: 3

Splited the said list into two parts:

([1, 1, 2], [3, 4, 4, 5, 1])

Click me to see the sample solution

79. Write a Python program to remove the K'th element from a given list, print the new list. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

After removing an element at the kth position of the said list:

[1, 1, 3, 4, 4, 5, 1]

Click me to see the sample solution

80. Write a Python program to insert an element at a specified position into a given list. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

After inserting an element at kth position in the said list:

[1, 1, 12, 2, 3, 4, 4, 5, 1]

Click me to see the sample solution

81. Write a Python program to extract a given number of randomly selected elements from a given list. Go to the editor

Original list:

[1, 1, 2, 3, 4, 4, 5, 1]

Selected 3 random numbers of the above list:

[4, 4, 1]

Click me to see the sample solution

82. Write a Python program to generate the combinations of n distinct objects taken from the elements of a given list. Go to the editor

Original list: [1, 2, 3, 4, 5, 6, 7, 8, 9] Combinations of 2 distinct objects: [1, 2] [1, 3] [1, 4] [1, 5] .... [7, 8] [7, 9] [8, 9]

Click me to see the sample solution

83. Write a Python program to round every number of a given list of numbers and print the total sum multiplied by the length of the list. Go to the editor

Original list: [22.4, 4.0, -16.22, -9.1, 11.0, -12.22, 14.2, -5.2, 17.5]

Result:

243

Click me to see the sample solution

84. Write a Python program to round the numbers of a given list, print the minimum and maximum numbers and multiply the numbers by 5. Print the unique numbers in ascending order separated by space. Go to the editor

Original list: [22.4, 4.0, 16.22, 9.1, 11.0, 12.22, 14.2, 5.2, 17.5]

Minimum value: 4

Maximum value: 22

Result:

20 25 45 55 60 70 80 90 110

Click me to see the sample solution

85. Write a Python program to create a multidimensional list (lists of lists) with zeros. Go to the editor

Multidimensional list: [[0, 0], [0, 0], [0, 0]]

Click me to see the sample solution

86. Write a Python program to create a 3X3 grid with numbers. Go to the editor

3X3 grid with numbers:

[[1, 2, 3], [1, 2, 3], [1, 2, 3]]

Click me to see the sample solution

141. Write a Python program to remove empty lists from a given list of lists. Go to the editor

Original list:

[[], [], [], 'Red', 'Green', [1, 2], 'Blue', [], []]

After deleting the empty lists from the said lists of lists

['Red', 'Green', [1, 2], 'Blue']

Click me to see the sample solution

142. Write a Python program to sum a specific column of a list in a given list of lists. Go to the editor

Original list of lists:

[[1, 2, 3, 2], [4, 5, 6, 2], [7, 8, 9, 5]]

Sum: 1st column of the said list of lists:

Sum: 2nd column of the said list of lists:

15

Sum: 4th column of the said list of lists:

9

Click me to see the sample solution

143. Write a Python program to get the frequency of the elements in a given list of lists. Go to the editor

Original list of lists:

[[1, 2, 3, 2], [4, 5, 6, 2], [7, 8, 9, 5]]

Frequency of the elements in the said list of lists:

{1: 1, 2: 3, 3: 1, 4: 1, 5: 2, 6: 1, 7: 1, 8: 1, 9: 1}

Click me to see the sample solution

144. Write a Python program to extract every first or specified element from a given two-dimensional list. Go to the editor

Original list of lists:

[[1, 2, 3, 2], [4, 5, 6, 2], [7, 1, 9, 5]]

Extract every first element from the said given two dimensional list:

[1, 4, 7]

Extract every third element from the said given two dimensional list:

[3, 6, 9]

Click me to see the sample solution

145. Write a Python program to generate a number in a specified range except some specific numbers. Go to the editor

Generate a number in a specified range (1, 10) except [2, 9, 10]

7

Generate a number in a specified range (-5, 5) except [-5,0,4,3,2]

-4

Click me to see the sample solution

146. Write a Python program to compute the sum of digits of each number of a given list. Go to the editor

Original tuple:

[10, 2, 56]

Sum of digits of each number of the said list of integers:

14

Original tuple:

[10, 20, 4, 5, 'b', 70, 'a']

Sum of digits of each number of the said list of integers:

19

Original tuple:

[10, 20, -4, 5, -70]

Sum of digits of each number of the said list of integers:

19

Click me to see the sample solution

147. Write a Python program to interleave two given list into another list randomly. Go to the editor

Original lists:

[1, 2, 7, 8, 3, 7]

[4, 3, 8, 9, 4, 3, 8, 9]

Interleave two given list into another list randomly:

[4, 1, 2, 3, 8, 9, 4, 3, 7, 8, 9, 8, 3, 7]

Click me to see the sample solution

148. Write a Python program to remove specific words from a given list. Go to the editor

Original list:

['red', 'green', 'blue', 'white', 'black', 'orange']

Remove words:

['white', 'orange']

After removing the specified words from the said list:

['red', 'green', 'blue', 'black']

Click me to see the sample solution

149. Write a Python program to get all possible combinations of the elements of a given list. Go to the editor

Original list:

['orange', 'red', 'green', 'blue']

All possible combinations of the said list's elements:

[[], ['orange'], ['red'], ['red', 'orange'], ['green'], ['green', 'orange'], ['green', 'red'], ['green', 'red', 'orange'], ['blue'], ['blue', 'orange'], ['blue', 'red'], ['blue', 'red', 'orange'], ['blue', 'green'], ['blue', 'green', 'orange'], ['blue', 'green', 'red'], ['blue', 'green', 'red', 'orange']]

Click me to see the sample solution

150. Write a Python program to reverse a given list of lists. Go to the editor

Original list:

[['orange', 'red'], ['green', 'blue'], ['white', 'black', 'pink']]

Reverse said list of lists:

[['white', 'black', 'pink'], ['green', 'blue'], ['orange', 'red']]

Original list:

[[1, 2, 3, 4], [0, 2, 4, 5], [2, 3, 4, 2, 4]]

Reverse said list of lists:

[[2, 3, 4, 2, 4], [0, 2, 4, 5], [1, 2, 3, 4]]

Click me to see the sample solution

151. Write a Python program to find the maximum and minimum values in a given list within specified index range. Go to the editor

Original list:

[4, 3, 0, 5, 3, 0, 2, 3, 4, 2, 4, 3, 5]

Index range:

3 to 8

Maximum and minimum values of the said given list within index range:

(5, 0)

Click me to see the sample solution

152. Write a Python program to combine two given sorted lists using heapq module. Go to the editor

Original sorted lists:

[1, 3, 5, 7, 9, 11]

[0, 2, 4, 6, 8, 10]

After merging the said two sorted lists:

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]

Click me to see the sample solution

153. Write a Python program to check if a given element occurs at least n times in a list. Go to the editor

Original list:

[0, 1, 3, 5, 0, 3, 4, 5, 0, 8, 0, 3, 6, 0, 3, 1, 1, 0]

Check if 3 occurs at least 4 times in a list:

True

Check if 0 occurs at least 5 times in a list:

True

Check if 8 occurs at least 3 times in a list:

False

Click me to see the sample solution

154. Write a Python program to join two given list of lists of same length, element wise. Go to the editor

Original lists:

[[10, 20], [30, 40], [50, 60], [30, 20, 80]]

[[61], [12, 14, 15], [12, 13, 19, 20], [12]]

Join the said two lists element wise:

[[10, 20, 61], [30, 40, 12, 14, 15], [50, 60, 12, 13, 19, 20], [30, 20, 80, 12]]

Original lists:

[['a', 'b'], ['b', 'c', 'd'], ['e', 'f']]

[['p', 'q'], ['p', 's', 't'], ['u', 'v', 'w']]

Join the said two lists element wise:

[['a', 'b', 'p', 'q'], ['b', 'c', 'd', 'p', 's', 't'], ['e', 'f', 'u', 'v', 'w']]

Click me to see the sample solution

155. Write a Python program to add two given lists of different lengths, start from left. Go to the editor

Original lists:

[2, 4, 7, 0, 5, 8]

[3, 3, -1, 7]

Add said two lists from left:

[5, 7, 6, 7, 5, 8]

Original lists:

[1, 2, 3, 4, 5, 6]

[2, 4, -3]

Add said two lists from left:

[3, 6, 0, 4, 5, 6]

Click me to see the sample solution

156. Write a Python program to add two given lists of different lengths, start from right. Go to the editor

Original lists:

[2, 4, 7, 0, 5, 8]

[3, 3, -1, 7]

Add said two lists from left:

[2, 4, 10, 3, 4, 15]

Original lists:

[1, 2, 3, 4, 5, 6]

[2, 4, -3]

Add said two lists from left:

[1, 2, 3, 6, 9, 3]

Click me to see the sample solution

157. Write a Python program to interleave multiple given lists of different lengths. Go to the editor

Original lists:

[2, 4, 7, 0, 5, 8]

[2, 5, 8]

[0, 1]

[3, 3, -1, 7]

Interleave said lists of different lengths:

[2, 2, 0, 3, 4, 5, 1, 3, 7, 8, -1, 0, 7, 5, 8]

Click me to see the sample solution

158. Write a Python program to find the maximum and minimum values in a given list of tuples. Go to the editor

Original list with tuples:

[('V', 60), ('VI', 70), ('VII', 75), ('VIII', 72), ('IX', 78), ('X', 70)]

Maximum and minimum values of the said list of tuples:

(78, 60)

Click me to see the sample solution

159. Write a Python program to append the same value /a list multiple times to a list/list-of-lists. Go to the editor

Add a value(7), 5 times, to a list:

['7', '7', '7', '7', '7']

Add 5, 6 times, to a list:

[1, 2, 3, 4, 5, 5, 5, 5, 5, 5]

Add a list, 4 times, to a list of lists:

[[1, 2, 5], [1, 2, 5], [1, 2, 5], [1, 2, 5]]

Add a list, 3 times, to a list of lists:

[[5, 6, 7], [1, 2, 5], [1, 2, 5], [1, 2, 5], [1, 2, 5]]

Click me to see the sample solution

160. Write a Python program to remove first specified number of elements from a given list satisfying a condition. Go to the editor

Remove the first 4 number of even numbers from the following list:

[3,10,4,7,5,7,8,3,3,4,5,9,3,4,9,8,5]

Output:

[3, 7, 5, 7, 3, 3, 5, 9, 3, 4, 9, 8, 5]

Original list:

[3, 10, 4, 7, 5, 7, 8, 3, 3, 4, 5, 9, 3, 4, 9, 8, 5]

Remove first 4 even numbers from the said list:

[3, 7, 5, 7, 3, 3, 5, 9, 3, 4, 9, 8, 5]

Click me to see the sample solution

161. Write a Python program to check if a given list is strictly increasing or not. Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true. Go to the editor

True

True

True

True

True

True

True

True

True

True

True

False

False

False

False

False

Click me to see the sample solution

162. Write a Python program to find the last occurrence of a specified item in a given list. Go to the editor

Original list:

['s', 'd', 'f', 's', 'd', 'f', 's', 'f', 'k', 'o', 'p', 'i', 'w', 'e', 'k', 'c']

Last occurrence of f in the said list:

7

Last occurrence of c in the said list:

15

Last occurrence of k in the said list:

14

Last occurrence of w in the said list:

12

Click me to see the sample solution

163. Write a Python program to get the index of the first element which is greater than a specified element. Go to the editor

Original list:

[12, 45, 23, 67, 78, 90, 100, 76, 38, 62, 73, 29, 83]

Index of the first element which is greater than 73 in the said list:

4

Index of the first element which is greater than 21 in the said list:

1

Index of the first element which is greater than 80 in the said list:

5

Index of the first element which is greater than 55 in the said list:

3

Click me to see the sample solution

164. Write a Python program to get the items from a given list with specific condition. Go to the editor

Original list:

[12, 45, 23, 67, 78, 90, 45, 32, 100, 76, 38, 62, 73, 29, 83]

Number of Items of the said list which are even and greater than 45

5

Click me to see the sample solution

165. Write a Python program to split a given list into specified sized chunks. Go to the editor

Original list:

[12, 45, 23, 67, 78, 90, 45, 32, 100, 76, 38, 62, 73, 29, 83]

Split the said list into equal size 3

[[12, 45, 23], [67, 78, 90], [45, 32, 100], [76, 38, 62], [73, 29, 83]]

Split the said list into equal size 4

[[12, 45, 23, 67], [78, 90, 45, 32], [100, 76, 38, 62], [73, 29, 83]]

Split the said list into equal size 5

[[12, 45, 23, 67, 78], [90, 45, 32, 100, 76], [38, 62, 73, 29, 83]]

Click me to see the sample solution

166. Write a Python program to remove None value from a given list. Go to the editor

Original list:

[12, 0, None, 23, None, -55, 234, 89, None, 0, 6, -12]

Remove None value from the said list:

[12, 0, 23, -55, 234, 89, 0, 6, -12]

Click me to see the sample solution

167. Write a Python program to convert a given list of strings into list of lists. Go to the editor

Original list of strings:

['Red', 'Maroon', 'Yellow', 'Olive']

Convert the said list of strings into list of lists:

[['R', 'e', 'd'], ['M', 'a', 'r', 'o', 'o', 'n'], ['Y', 'e', 'l', 'l', 'o', 'w'], ['O', 'l', 'i', 'v', 'e']]

Click me to see the sample solution

168. Write a Python program to display vertically each element of a given list, list of lists. Go to the editor

Original list:

['a', 'b', 'c', 'd', 'e', 'f']

Display each element vertically of the said list:

a

b

c

d

e

f

Original list:

[[1, 2, 5], [4, 5, 8], [7, 3, 6]]

Display each element vertically of the said list of lists:

1 4 7

2 5 3

5 8 6

Click me to see the sample solution

169. Write a Python program to convert a given list of strings and characters to a single list of characters. Go to the editor

Original list:

['red', 'white', 'a', 'b', 'black', 'f']

Convert the said list of strings and characters to a single list of characters:

['r', 'e', 'd', 'w', 'h', 'i', 't', 'e', 'a', 'b', 'b', 'l', 'a', 'c', 'k', 'f']

Click me to see the sample solution

170. Write a Python program to insert an element in a given list after every nth position. Go to the editor

Original list:

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]

Insert a in the said list after 2 nd element:

[1, 2, 'a', 3, 4, 'a', 5, 6, 'a', 7, 8, 'a', 9, 0]

Insert b in the said list after 4 th element:

[1, 2, 3, 4, 'b', 5, 6, 7, 8, 'b', 9, 0]

Click me to see the sample solution

171. Write a Python program to concatenate element-wise three given lists. Go to the editor

Original lists:

['0', '1', '2', '3', '4']

['red', 'green', 'black', 'blue', 'white']

['100', '200', '300', '400', '500']

Concatenate element-wise three said lists:

['0red100', '1green200', '2black300', '3blue400', '4white500']

Click me to see the sample solution

172. Write a Python program to remove the last N number of elements from a given list. Go to the editor

Original lists:

[2, 3, 9, 8, 2, 0, 39, 84, 2, 2, 34, 2, 34, 5, 3, 5]

Remove the last 3 elements from the said list:

[2, 3, 9, 8, 2, 0, 39, 84, 2, 2, 34, 2, 34]

Remove the last 5 elements from the said list:

[2, 3, 9, 8, 2, 0, 39, 84, 2, 2, 34]

Remove the last 1 element from the said list:

[2, 3, 9, 8, 2, 0, 39, 84, 2, 2, 34, 2, 34, 5, 3]

Click me to see the sample solution

173. Write a Python program to merge some list items in given list using index value. Go to the editor

Original lists:

['a', 'b', 'c', 'd', 'e', 'f', 'g']

Merge items from 2 to 4 in the said List:

['a', 'b', 'cd', 'e', 'f', 'g']

Merge items from 3 to 7 in the said List:

['a', 'b', 'c', 'defg']

Click me to see the sample solution

174. Write a Python program to add a number to each element in a given list of numbers. Go to the editor

Original lists:

[3, 8, 9, 4, 5, 0, 5, 0, 3]

Add 3 to each element in the said list:

[6, 11, 12, 7, 8, 3, 8, 3, 6]

Original lists:

[3.2, 8, 9.9, 4.2, 5, 0.1, 5, 3.11, 0]

Add 0.51 to each element in the said list:

[3.71, 8.51, 10.41, 4.71, 5.51, 0.61, 5.51, 3.62, 0.51]

Click me to see the sample solution

175. Write a Python program to find the minimum, maximum value for each tuple position in a given list of tuples. Go to the editor

Original list:

[(2, 3), (2, 4), (0, 6), (7, 1)]

Maximum value for each tuple position in the said list of tuples:

[7, 6]

Minimum value for each tuple position in the said list of tuples:

[0, 1]

Click me to see the sample solution

176. Write a Python program to create a new list dividing two given lists of numbers. Go to the editor

Original list:

[7, 2, 3, 4, 9, 2, 3]

[7, 2, 3, 4, 9, 2, 3]

[0.7777777777777778, 0.25, 1.5, 1.3333333333333333, 3.0, 2.0, 1.5]

Click me to see the sample solution

177. Write a Python program to find common elements in a given list of lists. Go to the editor

Original list:

[[7, 2, 3, 4, 7], [9, 2, 3, 2, 5], [8, 2, 3, 4, 4]]

Common elements of the said list of lists:

[2, 3]

Original list:

[['a', 'b', 'c'], ['b', 'c', 'd'], ['c', 'd', 'e']]

Common elements of the said list of lists:

['c']

Click me to see the sample solution

178. Write a Python program to insert a specified element in a given list after every nth element. Go to the editor

Original list:

[1, 3, 5, 7, 9, 11, 0, 2, 4, 6, 8, 10, 8, 9, 0, 4, 3, 0]

Insert 20 in said list after every 4 th element:

[1, 3, 5, 7, 20, 9, 11, 0, 2, 20, 4, 6, 8, 10, 20, 8, 9, 0, 4, 20, 3, 0]

Original list:

['s', 'd', 'f', 'j', 's', 'a', 'j', 'd', 'f', 'd']

Insert Z in said list after every 3 th element:

['s', 'd', 'f', 'Z', 'j', 's', 'a', 'Z', 'j', 'd', 'f', 'Z', 'd']

Click me to see the sample solution

179. Write a Python program to create the largest possible number using the elements of a given list of positive integers. Go to the editor

Original list:

[3, 40, 41, 43, 74, 9]

Largest possible number using the elements of the said list of positive integers:

9744341403

Original list:

[10, 40, 20, 30, 50, 60]

Largest possible number using the elements of the said list of positive integers:

605040302010

Original list:

[8, 4, 2, 9, 5, 6, 1, 0]

Largest possible number using the elements of the said list of positive integers:

98654210

Click me to see the sample solution

180. Write a Python program to create the smallest possible number using the elements of a given list of positive integers. Go to the editor

Original list:

[3, 40, 41, 43, 74, 9]

Smallest possible number using the elements of the said list of positive integers:

3404143749

Original list:

[10, 40, 20, 30, 50, 60]

Smallest possible number using the elements of the said list of positive integers:

102030405060

Original list:

[8, 4, 2, 9, 5, 6, 1, 0]

Smallest possible number using the elements of the said list of positive integers:

01245689

Click me to see the sample solution

181. Write a Python program to iterate a given list cyclically on specific index position. Go to the editor

Original list:

['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h']

Iterate the said list cyclically on specific index position 3 :

['d', 'e', 'f', 'g', 'h', 'a', 'b', 'c']

Iterate the said list cyclically on specific index position 5 :

['f', 'g', 'h', 'a', 'b', 'c', 'd', 'e']

Click me to see the sample solution

182. Write a Python program to calculate the maximum and minimum sum of a sublist in a given list of lists. Go to the editor

Original list:

[[1, 2, 3, 5], [2, 3, 5, 4], [0, 5, 4, 1], [3, 7, 2, 1], [1, 2, 1, 2]]

Maximum sum of sub list of the said list of lists:

[2, 3, 5, 4]

Minimum sum of sub list of the said list of lists:

[1, 2, 1, 2]

Click me to see the sample solution

183. Write a Python program to get the unique values in a given list of lists. Go to the editor

Original list:

[[1, 2, 3, 5], [2, 3, 5, 4], [0, 5, 4, 1], [3, 7, 2, 1], [1, 2, 1, 2]]

Unique values of the said list of lists:

[0, 1, 2, 3, 4, 5, 7]

Original list:

[['h', 'g', 'l', 'k'], ['a', 'b', 'd', 'e', 'c'], ['j', 'i', 'y'], ['n', 'b', 'v', 'c'], ['x', 'z']]

Unique values of the said list of lists:

['e', 'd', 'c', 'b', 'x', 'k', 'n', 'h', 'g', 'j', 'i', 'a', 'l', 'y', 'v', 'z']

Click me to see the sample solution

184. Write a Python program to form Bigrams of words in a given list of strings.
Go to the editor

From Wikipedia:

A bigram or digram is a sequence of two adjacent elements from a string of tokens, which are typically letters, syllables, or words. A bigram is an n-gram for n=2. The frequency distribution of every bigram in a string is commonly used for simple statistical analysis of text in many applications, including in computational linguistics, cryptography, speech recognition, and so on.

Original list:

['Sum all the items in a list', 'Find the second smallest number in a list']

Bigram sequence of the said list:

[('Sum', 'all'), ('all', 'the'), ('the', 'items'), ('items', 'in'), ('in', 'a'), ('a', 'list'), ('Find', 'the'), ('the', 'second'), ('second', 'smallest'), ('smallest', 'number'), ('number', 'in'), ('in', 'a'), ('a', 'list')]

Click me to see the sample solution

185. Write a Python program to convert a given decimal number to binary list. Go to the editor

Original Number: 8

Decimal number (8) to binary list:

[1, 0, 0, 0]

Original Number: 45

Decimal number (45) to binary list:

[1, 0, 1, 1, 0, 1]

Original Number: 100

Decimal number (100) to binary list:

[1, 1, 0, 0, 1, 0, 0]

Click me to see the sample solution

186. Write a Python program to swap two sublists in a given list. Go to the editor

Original list:

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]

Swap two sublists of the said list:

[0, 6, 7, 8, 9, 3, 4, 5, 1, 2, 10, 11, 12, 13, 14, 15]

Swap two sublists of the said list:

[0, 9, 3, 8, 6, 7, 4, 5, 1, 2, 10, 11, 12, 13, 14, 15]

Click me to see the sample solution

187. Write a Python program to convert a given list of tuples to a list of strings.
Go to the editor

Original list of tuples:

[('red', 'green'), ('black', 'white'), ('orange', 'pink')]

Convert the said list of tuples to a list of strings:

['red green', 'black white', 'orange pink']

Original list of tuples:

[('Laiba', 'Delacruz'), ('Mali', 'Stacey', 'Drummond'), ('Raja', 'Welch'), ('Saarah', 'Stone')]

Convert the said list of tuples to a list of strings:

['Laiba Delacruz', 'Mali Stacey Drummond', 'Raja Welch', 'Saarah Stone']

Click me to see the sample solution

188. Write a Python program to sort a given list of tuples on specified element.
Go to the editor

Original list of tuples:

[('item2', 10, 10.12), ('item3', 15, 25.1), ('item1', 11, 24.5), ('item4', 12, 22.5)]

Sort on 1st element of the tuple of the said list:

[('item1', 11, 24.5), ('item2', 10, 10.12), ('item3', 15, 25.1), ('item4', 12, 22.5)]

Sort on 2nd element of the tuple of the said list:

[('item2', 10, 10.12), ('item1', 11, 24.5), ('item4', 12, 22.5), ('item3', 15, 25.1)]

Sort on 3rd element of the tuple of the said list:

[('item2', 10, 10.12), ('item4', 12, 22.5), ('item1', 11, 24.5), ('item3', 15, 25.1)]

Click me to see the sample solution

189. Write a Python program to shift last element to first position and first element to last position in a given list. Go to the editor

Original list:

[1, 2, 3, 4, 5, 6, 7]

Shift last element to first position and first element to last position of the said list:

[7, 2, 3, 4, 5, 6, 1]

Original list:

['s', 'd', 'f', 'd', 's', 's', 'd', 'f']

Shift last element to first position and first element to last position of the said list:

['f', 'd', 'f', 'd', 's', 's', 'd', 's']

Click me to see the sample solution

190. Write a Python program to find the specified number of largest products from two given list, multiplying an element from each list. Go to the editor

Original lists:

[1, 2, 3, 4, 5, 6]

[3, 6, 8, 9, 10, 6]

3 Number of largest products from the said two lists:

[60, 54, 50]

4 Number of largest products from the said two lists:

[60, 54, 50, 48]

Click me to see the sample solution

191. Write a Python program to find the maximum and minimum value of the three given lists. Go to the editor

Original lists:

[2, 3, 5, 8, 7, 2, 3]

[4, 3, 9, 0, 4, 3, 9]

[2, 1, 5, 6, 5, 5, 4]

Maximum value of the said three lists:

9

Minimum value of the said three lists:

0

Click me to see the sample solution

192. Write a Python program to remove all strings from a given list of tuples. Go to the editor

Original list:

[(100, 'Math'), (80, 'Math'), (90, 'Math'), (88, 'Science', 89), (90, 'Science', 92)]

Remove all strings from the said list of tuples:

[(100,), (80,), (90,), (88, 89), (90, 92)]

Click me to see the sample solution

193. Write a Python program to find the dimension of a given matrix. Go to the editor

Original list:

[[1, 2], [2, 4]]

Dimension of the said matrix:

(2, 2)

Original list:

[[0, 1, 2], [2, 4, 5]]

Dimension of the said matrix:

(2, 3)

Original list:

[[0, 1, 2], [2, 4, 5], [2, 3, 4]]

Dimension of the said matrix:

(3, 3)

Click me to see the sample solution

194. Write a Python program to sum two or more lists, the lengths of the lists may be different. Go to the editor

Original list:

[[1, 2, 4], [2, 4, 4], [1, 2]]

Sum said lists with different lengths:

[4, 8, 8]

Original list:

[[1], [2, 4, 4], [1, 2], [4]]

Sum said lists with different lengths:

[8, 6, 4]

Click me to see the sample solution

195. Write a Python program to traverse a given list in reverse order, also print the elements with original index. Go to the editor

Original list:

['red', 'green', 'white', 'black']

Traverse the said list in reverse order:

black

white

green

red

Traverse the said list in reverse order with original index:

3 black

2 white

1 green

0 red

Click me to see the sample solution

196. Write a Python program to move a specified element in a given list. Go to the editor

Original list:

['red', 'green', 'white', 'black', 'orange']

Move white at the end of the said list:

['red', 'green', 'black', 'orange', 'white']

Original list:

['red', 'green', 'white', 'black', 'orange']

Move red at the end of the said list:

['green', 'white', 'black', 'orange', 'red']

Original list:

['red', 'green', 'white', 'black', 'orange']

Move black at the end of the said list:

['red', 'green', 'white', 'orange', 'black']

Click me to see the sample solution

197. Write a Python program to compute the average of n^{th} elements in a given list of lists with different lengths. Go to the editor

Original list:

[[0, 1, 2], [2, 3, 4], [3, 4, 5, 6], [7, 8, 9, 10, 11], [12, 13, 14]]

Average of n-th elements in the said list of lists with different lengths:

[4.8, 5.8, 6.8, 8.0, 11.0]

Click me to see the sample solution

198. Write a Python program to compare two given lists and find the indices of the values present in both lists. Go to the editor

Original lists:

[1, 2, 3, 4, 5, 6]

[7, 8, 5, 2, 10, 12]

Compare said two lists and get the indices of the values present in both lists:

[1, 4]

Original lists:

[1, 2, 3, 4, 5, 6]

[7, 8, 5, 7, 10, 12]

Compare said two lists and get the indices of the values present in both lists:

[4]

Original lists:

[1, 2, 3, 4, 15, 6]

[7, 8, 5, 7, 10, 12]

Compare said two lists and get the indices of the values present in both lists:

[]

Click me to see the sample solution

199. Write a Python program to convert a given unicode list to a list contains strings. Go to the editor

Original lists:

['S001', 'S002', 'S003', 'S004']

Convert the said unicode list to a list contains strings:

['S001', 'S002', 'S003', 'S004']

Click me to see the sample solution

200. Write a Python program to pair up the consecutive elements of a given list. Go to the editor

Original lists:

[1, 2, 3, 4, 5, 6]

Pair up the consecutive elements of the said list:

[[1, 2], [2, 3], [3, 4], [4, 5], [5, 6]]

Original lists:

[1, 2, 3, 4, 5]

Pair up the consecutive elements of the said list:

[[1, 2], [2, 3], [3, 4], [4, 5]]

Click me to see the sample solution

201. Write a Python program to check if a given string contains an element, which is present in a list. Go to the editor

The original string and list:

https://www.w3resource.com/python-exercises/list/

['.com', '.edu', '.tv']

Check if https://www.w3resource.com/python-exercises/list/ contains an element, which is present in the list ['.com', '.edu', '.tv']

True

The original string and list: https://www.w3resource.net

https://www.w3resource.net

['.com', '.edu', '.tv']

Check if https://www.w3resource.net contains an element, which is present in the list ['.com', '.edu', '.tv']

False

Click me to see the sample solution

202. Write a Python program to find the indexes of all None items in a given list. Go to the editor

Original list:

[1, None, 5, 4, None, 0, None, None]

Indexes of all None items of the list:

[1, 4, 6, 7]

Click me to see the sample solution

203. Write a Python program to join adjacent members of a given list. Go to the editor

Original list:

['1', '2', '3', '4', '5', '6', '7', '8']

Join adjacent members of a given list:

['12', '34', '56', '78']

Original list:

['1', '2', '3']

Join adjacent members of a given list:

['12']

Click me to see the sample solution

204. Write a Python program to check if first digit/character of each element in a given list is same or not. Go to the editor

Original list:

[1234, 122, 1984, 19372, 100]

Check if first digit in each element of the said given list is same or not!

True

Original list:

[1234, 922, 1984, 19372, 100]

Check if first digit in each element of the said given list is same or not!

False

Original list:

['aabc', 'abc', 'ab', 'a']

Check if first character in each element of the said given list is same or not!

True

Original list:

['aabc', 'abc', 'ab', 'ha']

Check if first character in each element of the said given list is same or not!

False

Click me to see the sample solution

205. Write a Python program to find the indices of elements of a given list, greater than a specified value. Go to the editor

Original list:

[1234, 1522, 1984, 19372, 1000, 2342, 7626]

Indices of elements of the said list, greater than 3000

[3, 6]

Original list:

[1234, 1522, 1984, 19372, 1000, 2342, 7626]

Indices of elements of the said list, greater than 20000

[]

Click me to see the sample solution

206. Write a Python program to remove additional spaces in a given list. Go to the editor

Original list:

['abc ', ' ', ' ', 'sdfds ', ' ', ' ', 'sdfds ', 'huy']

Remove additional spaces from the said list:

['abc', '', '', 'sdfds', '', '', 'sdfds', 'huy']