Python List Practice Questions

- 1. Write a Python program to sum all the items in a list.
- 2. Write a Python program to multiplies all the items in a list.
- 3. Write a Python program to get the largest number from a list.
- 4. Write a Python program to get the smallest number from a list.
- **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.

```
Sample List : ['abc', 'xyz', 'aba', '1221']
Expected Result : 2
```

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.

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

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

7. Write a Python program to remove duplicates from a list.

- 8. Write a Python program to check a list is empty or not.
- 9. Write a Python program to clone or copy a list.
- 10. Write a Python program to find the list of words that are longer than n from a given list of words.
- 11. Write a Python function that takes two lists and returns True if they have at least one common member.
- 12. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.

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

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

- 13. Write a Python program to generate a 3*4*6 3D array whose each element is *.
- 14. Write a Python program to print the numbers of a specified list after removing even numbers from it.
- 15. Write a Python program to shuffle and print a specified list.

- 16. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).
- 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).
- 18. Write a Python program to generate all permutations of a list in Python.
- 19. Write a Python program to get the difference between the two lists.
- 20. Write a Python program access the index of a list.
- 21. Write a Python program to convert a list of characters into a string.
- 22. Write a Python program to find the index of an item in a specified list.
- 23. Write a Python program to flatten a shallow list.
- 24. Write a Python program to append a list to the second list.
- 25. Write a Python program to select an item randomly from a list.

- **26.** Write a python program to check whether two lists are circularly identical.
- 27. Write a Python program to find the second smallest number in a list.
- 28. Write a Python program to find the second largest number in a list.
- 29. Write a Python program to get unique values from a list.
- **30.** Write a Python program to get the frequency of the elements in a list.
- **31.** Write a Python program to count the number of elements in a list within a specified range.
- **32.** Write a Python program to check whether a list contains a sublist.
- **33.** Write a Python program to generate all sublists of a list.
- **34.** Write a Python program using Sieve of Eratosthenes method for computing primes upto a specified number.

algorithm for finding all prime numbers up to any given limit.

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

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

n = 5

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

- **36.** Write a Python program to get variable unique identification number or string.
- **37.** Write a Python program to find common items from two lists.
- **38.** Write a Python program to change the position of every n-th value with the (n+1)th in a list.

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

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

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

Sample list: [11, 33, 50]

Expected Output: 113350

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

- 41. Write a Python program to create multiple lists.
- **42.** Write a Python program to find missing and additional values in two lists.

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

Additional values in second list: g,h

- **43.** Write a Python program to split a list into different variables.
- **44.** Write a Python program to generate groups of five consecutive numbers in a list.
- **45.** Write a Python program to convert a pair of values into a sorted unique array.
- 46. Write a Python program to select the odd items of a list.
- **47.** Write a Python program to insert an element before each element of a list.
- **48.** Write a Python program to print a nested lists (each list on a new line) using the print() function.
- **49.** Write a Python program to convert list to list of dictionaries.

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

Expected Output: [{'color_name': 'Black', 'color_code':
'#000000'}, {'color_name': 'Red', 'color_code': '#FFF0000'},
{'color_name': 'Maroon', 'color_code': '#800000'},
{'color_name': 'Yellow', 'color_code': '#FFFF00'}]
```

- **50.** Write a Python program to sort a list of nested dictionaries.
- 51. Write a Python program to split a list every Nth element.

```
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']]

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

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

Expected Output:

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

- **53.** Write a Python program to create a list with infinite elements.
- 54. Write a Python program to concatenate elements of a list.

- **55.** Write a Python program to remove key values pairs from a list of dictionaries.
- 56. Write a Python program to convert a string to a list.
- **57.** Write a Python program to check whether all items of a list is equal to a given string.
- **58.** Write a Python program to replace the last element in a list with another list.

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

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

- **59.** Write a Python program to check whether the n-th element exists in a given list.
- **60.** Write a Python program to find a tuple, the smallest second index value from a list of tuples.
- **61.** Write a Python program to create a list of empty dictionaries.
- **62.** Write a Python program to print a list of space-separated elements.
- **63.** Write a Python program to insert a given string at the beginning of all items in a list.

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

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

- **64.** Write a Python program to iterate over two lists simultaneously.
- **65.** Write a Python program to move all zero digits to end of a given list of numbers.

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]

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

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

Expected Output: [10, 11, 12]

- **67.** Write a Python program to find all the values in a list are greater than a specified number.
- 68. Write a Python program to extend a list without append.

Sample data: [10, 20, 30]

[40, 50, 60]

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

69. Write a Python program to remove duplicates from a list of lists. Sample list: [[10, 20], [40], [30, 56, 25], [10, 20], [33], [40]] New List: [[10, 20], [30, 56, 25], [33], [40]] 70. Write a Python program to get the depth of a dictionary. 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: [] 71. Write a Python program to check whether all dictionaries in a list are empty or not. Sample list : [{},{},{}] Return value : True Sample list : $[\{1,2\},\{\},\{\}]$ Return value : False

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

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]

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

Original list:

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

After removing consecutive duplicates:

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

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:

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.

Original list:

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:

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.

Original list:

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

Original String:

aabcddddadnss

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

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

Original encoded list:

Decode a run-length encoded said list:

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.

Original list:

Length of the first part of the list: 3

Splited the said list into two parts:

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

Original list:

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

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

Original list:

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

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

Original list:

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

Selected 3 random numbers of the above list:

[4, 4, 1]

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

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]

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.

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

Result:

243

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.

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

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

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

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

3X3 grid with numbers:

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

87. Write a Python program to read a matrix from console and print the sum for each column. Accept matrix rows, columns and elements for each column separated with a space(for every row) as input from the user.

Input rows: 2

Input columns: 2

Input number of elements in a row (1, 2, 3):

1 2

3 4

sum for each column:

4 6

88. Write a Python program to read a square matrix from console and print the sum of matrix primary diagonal. Accept the size of the square matrix and elements for each column separated with a space (for every row) as input from the user.

```
Input the size of the matrix: 3
2 3 4
4 5 6
3 4 7
Sum of matrix primary diagonal:
14
89. Write a Python program to Zip two given lists of lists.
Original lists:
[[1, 3], [5, 7], [9, 11]]
[[2, 4], [6, 8], [10, 12, 14]]
Zipped list:
[[1, 3, 2, 4], [5, 7, 6, 8], [9, 11, 10, 12, 14]]
90. Write a Python program to count number of lists in a
given list of lists.
Original list:
[[1, 3], [5, 7], [9, 11], [13, 15, 17]]
Number of lists in said list of lists:
4
Original list:
[[2, 4], [[6, 8], [4, 5, 8]], [10, 12, 14]]
Number of lists in said list of lists:
```

3

91. Write a Python program to find the list with maximum and minimum length.

Original list:

[[0], [1, 3], [5, 7], [9, 11], [13, 15, 17]]

List with maximum length of lists:

(3, [13, 15, 17])

List with minimum length of lists:

(1, [0])

Original list:

[[0], [1, 3], [5, 7], [9, 11], [3, 5, 7]]

List with maximum length of lists:

(3, [3, 5, 7])

List with minimum length of lists:

(1, [0])

Original list:

[[12], [1, 3], [1, 34, 5, 7], [9, 11], [3, 5, 7]]

List with maximum length of lists:

(4, [1, 34, 5, 7])

List with minimum length of lists:

(1, [12])

92. Write a Python program to check if a nested list is a subset of another nested list.

Original list:

[[1, 3], [5, 7], [9, 11], [13, 15, 17]]

```
[[1, 3], [13, 15, 17]]
If the one of the said list is a subset of another .:
True
Original list:
[[[1, 2], [2, 3]], [[3, 4], [5, 6]]]
[[[3, 4], [5, 6]]]
If the one of the said list is a subset of another .:
True
Original list:
[[[1, 2], [2, 3]], [[3, 4], [5, 7]]]
[[[3, 4], [5, 6]]]
If the one of the said list is a subset of another .:
False
93. Write a Python program to count the number of sublists
contain a particular element.
Original list:
[[1, 3], [5, 7], [1, 11], [1, 15, 7]]
Count 1 in the said list:
3
Count 7 in the said list:
Original list:
[['A', 'B'], ['A', 'C'], ['A', 'D', 'E'], ['B', 'C', 'D']]
Count 'A' in the said list:
```

```
3
```

Count 'E' in the said list:

1

94. Write a Python program to count number of unique sublists within a given list.

Original list:

$$[[1, 3], [5, 7], [1, 3], [13, 15, 17], [5, 7], [9, 11]]$$

Number of unique lists of the said list:

$$\{(1, 3): 2, (5, 7): 2, (13, 15, 17): 1, (9, 11): 1\}$$

Original list:

Number of unique lists of the said list:

```
{('green', 'orange'): 2, ('black',): 1, ('white',): 1}
```

95. Write a Python program to sort each sublist of strings in a given list of lists.

Original list:

Sort the list of lists by length and value:

96. Write a Python program to sort a given list of lists by length and value.

Original list:

[[2], [0], [1, 3], [0, 7], [9, 11], [13, 15, 17]]

Sort the list of lists by length and value:

[[0], [2], [0, 7], [1, 3], [9, 11], [13, 15, 17]]

97. Write a Python program to remove sublists from a given list of lists, which contains an element outside a given range.

Original list:

After removing sublists from a given list of lists, which contains an element outside the given range:

[[13, 14, 15, 17]]

98. Write a Python program to scramble the letters of string in a given list.

Original list:

['Python', 'list', 'exercises', 'practice', 'solution']
After scrambling the letters of the strings of the said list:
['tnPhyo', 'tlis', 'ecrsseiex', 'ccpitear', 'noiltuos']

99. Write a Python program to find the maximum and minimum values in a given heterogeneous list.

Original list:

['Python', 3, 2, 4, 5, 'version']

Maximum and Minimum values in the said list:

(5, 2)

100. Write a Python program to extract common index elements from more than one given list.

Original lists:

Common index elements of the said lists:

[1, 7]

101. Write a Python program to sort a given matrix in ascending order according to the sum of its rows.

Original Matrix:

Sort the said matrix in ascending order according to the sum of its rows

Original Matrix:

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

Sort the said matrix in ascending order according to the sum of its rows

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

102. Write a Python program to extract specified size of strings from a give list of string values.

Original list:

['Python', 'list', 'exercises', 'practice', 'solution']

length of the string to extract:

8

After extracting strings of specified length from the said list:

['practice', 'solution']

103. Write a Python program to extract specified number of elements from a given list, which follows each other continuously.

Original list:

Extract 2 number of elements from the said list which follows each other continuously:

[1, 4]

Original lists:

Extract 4 number of elements from the said list which follows each other continuously:

[4]

104. Write a Python program to find the difference between consecutive numbers in a given list.

Original list:

Difference between consecutive numbers of the said list:

Original list:

Difference between consecutive numbers of the said list:

$$[1, 3, 1, -3, 4]$$

105. Write a Python program to compute average of two given lists.

Original list:

Average of two lists:

3.823529411764706

106. Write a Python program to count integer in a given mixed list.

Original list:

Number of integers in the said mixed list:

6

107. Write a Python program to remove a specified column from a given nested list.

Original Nested list:

After removing 1st column:

Original Nested list:

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

After removing 3rd column:

$$[[1, 2], [-2, 4], [1, -1]]$$

108. Write a Python program to extract a specified column from a given nested list.

Original Nested list:

Extract 1st column:

Original Nested list:

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

Extract 3rd column:

$$[3, -5, 1]$$

109. Write a Python program to rotate a given list by specified number of items to the right or left direction.

original List:

Rotate the said list in left direction by 4:

Rotate the said list in left direction by 2:

Rotate the said list in Right direction by 4:

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

Rotate the said list in Right direction by 2:

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

110. Write a Python program to find the item with maximum occurrences in a given list.

Original list:

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

Item with maximum occurrences of the said list:

2

111. Write a Python program to access multiple elements of specified index from a given list.

Original list:

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

Index list:

[0, 3, 5, 7, 10]

Items with specified index of the said list:

[2, 4, 9, 2, 1]

112. Write a Python program to check whether a specified list is sorted or not.

Original list:

[1, 2, 4, 6, 8, 10, 12, 14, 16, 17]

Is the said list is sorted!

True

```
Original list:
[1, 2, 4, 6, 8, 10, 12, 14, 16, 17]
Is the said list is sorted!
False
```

113. Write a Python program to remove duplicate dictionary from a given list.

Original list with duplicate dictionary:

```
[{'Green': '#008000'}, {'Black': '#000000'}, {'Blue':
'#0000FF'}, {'Green': '#008000'}]

After removing duplicate dictionary of the said list:
[{'Black': '#000000'}, {'Blue': '#0000FF'}, {'Green':
'#008000'}]
```

114. Write a Python program to extract the nth element from a given list of tuples.

Original list:

```
[('Greyson Fulton', 98, 99), ('Brady Kent', 97, 96), ('Wyatt
Knott', 91, 94), ('Beau Turnbull', 94, 98)]
```

Extract nth element (n = 0) from the said list of tuples:

['Greyson Fulton', 'Brady Kent', 'Wyatt Knott', 'Beau Turnbull']

Extract nth element (n=2) from the said list of tuples: [99, 96, 94, 98]

115. Write a Python program to check if the elements of a given list are unique or not.

Original list:

[1, 2, 4, 6, 8, 2, 1, 4, 10, 12, 14, 12, 16, 17]

Is the said list contains all unique elements!

False

Original list:

[2, 4, 6, 8, 10, 12, 14]

Is the said list contains all unique elements!

True

116. Write a Python program to sort a list of lists by a given index of the inner list.

Original list:

[('Greyson Fulton', 98, 99), ('Brady Kent', 97, 96), ('Wyatt Knott', 91, 94), ('Beau Turnbull', 94, 98)]

Sort the said list of lists by a given index (Index = 0) of the inner list

[('Beau Turnbull', 94, 98), ('Brady Kent', 97, 96), ('Greyson
Fulton', 98, 99), ('Wyatt Knott', 91, 94)]

Sort the said list of lists by a given index (Index = 2) of the inner list

[('Wyatt Knott', 91, 94), ('Brady Kent', 97, 96), ('Beau Turnbull', 94, 98), ('Greyson Fulton', 98, 99)]

117. Write a Python program to remove all elements from a given list present in another list.

Original lists:

list1: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

list2: [2, 4, 6, 8]

Remove all elements from 'list1' present in 'list2:

[1, 3, 5, 7, 9, 10]

118. Write a Python program to find the difference between elements (n+1th - nth) of a given list of numeric values.

Original list:

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

Dfference between elements (n+1th - nth) of the said list:

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

Original list:

[2, 4, 6, 8]

Dfference between elements (n+1th - nth) of the said list:

[2, 2, 2]

119. Write a Python program to check if a substring presents in a given list of string values.

Original list:

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

Substring to search:

ack

Check if a substring presents in the said list of string values:

True

Substring to search:

abc

Check if a substring presents in the said list of string values:

False

120. Write a Python program to create a list taking alternate elements from a given list.

Original list:

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

List with alternate elements from the said list:

['red', 'white', 'orange']

Original list:

[2, 0, 3, 4, 0, 2, 8, 3, 4, 2]

List with alternate elements from the said list:

[2, 3, 0, 8, 4]

121. Write a Python program to find the nested lists elements which are present in another list.

Original lists:

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

[[12, 18, 23, 25, 45], [7, 11, 19, 24, 28], [1, 5, 8, 18, 15, 16]]

Intersection of said nested lists:

[[12], [7, 11], [1, 5, 8]]

122. Write a Python program to find common element(s) in a given nested lists.

Original lists:

[[12, 18, 23, 25, 45], [7, 12, 18, 24, 28], [1, 5, 8, 12, 15, 16, 18]]

Common element(s) in nested lists:

[18, 12]

123. Write a Python program to reverse strings in a given list of string values.

Original lists:

['Red', 'Green', 'Blue', 'White', 'Black']

Reverse strings of the said given list:

['deR', 'neerG', 'eulB', 'etihW', 'kcalB']

124. Write a Python program to find the maximum and minimum product from the pairs of tuple within a given list.

The original list, tuple :

Maximum and minimum product from the pairs of the said tuple of list:

(36, 8)

125. Write a Python program to calculate the product of the unique numbers of a given list.

Original List: [10, 20, 30, 40, 20, 50, 60, 40]

Product of the unique numbers of the said list: 720000000

126. Write a Python program to interleave multiple lists of the same length.

Original list:

list1: [1, 2, 3, 4, 5, 6, 7]

list2: [10, 20, 30, 40, 50, 60, 70]

list3: [100, 200, 300, 400, 500, 600, 700]

Interleave multiple lists:

[1, 10, 100, 2, 20, 200, 3, 30, 300, 4, 40, 400, 5, 50, 500, 6, 60, 600, 7, 70, 700]

127. Write a Python program to remove words from a given list of strings containing a character or string.

Original list:

list1: ['Red color', 'Orange#', 'Green', 'Orange @', 'White']

Character list:

['#', 'color', '@']

New list:

['Red', '', 'Green', 'Orange', 'White']

128. Write a Python program to calculate the sum of the numbers in a list between the indices of a specified range.

Original list:

[2, 1, 5, 6, 8, 3, 4, 9, 10, 11, 8, 12]

Range: 8 , 10

Sum of the specified range:

129. Write a Python program to reverse each list in a given list of lists.

Original list of lists:

Reverse each list in the said list of lists:

130. Write a Python program to count the same pair in three given lists.

Original lists:

Number of same pair of the said three given lists:

3

131. Write a Python program to count the frequency of consecutive duplicate elements in a given list of numbers.

Original lists:

Consecutive duplicate elements and their frequency:

132. Write a Python program to find all index positions of the maximum and minimum values in a given list of numbers.

Original list:

[12, 33, 23, 10, 67, 89, 45, 667, 23, 12, 11, 10, 54]

Index positions of the maximum value of the said list:

[7]

Index positions of the minimum value of the said list:

[3, 11]

133. Write a Python program to check common elements between two given list are in same order or not.

Original lists:

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

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

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

Test common elements between color1 and color2 are in same order?

True

Test common elements between color1 and color3 are in same order?

False

Test common elements between color2 and color3 are in same order?

False

134. Write a Python program to find the difference between two list including duplicate elements.

Original lists:

Difference between two said list including duplicate elements):

135. Write a Python program to iterate over all pairs of consecutive items in a given list.

Original lists:

Iterate over all pairs of consecutive items of the said list:

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

136. Write a Python program to remove duplicate words from a given list of strings.

Original String:

137. Write a Python program to find a first even and odd number in a given list of numbers.

Original list:

First even and odd number of the said list of numbers:

138. Write a Python program to sort a given mixed list of integers and strings. Numbers must be sorted before strings.

Original list:

[19, 'red', 12, 'green', 'blue', 10, 'white', 'green', 1]

Sort the said mixed list of integers and strings:

[1, 10, 12, 19, 'blue', 'green', 'green', 'red', 'white']

139. Write a Python program to sort a given list of strings (numbers) numerically.

Original list:

['4', '12', '45', '7', '0', '100', '200', '-12', '-500']

Sort the said list of strings (numbers) numerically:

[-500, -12, 0, 4, 7, 12, 45, 100, 200]

140. Write a Python program to remove the specific item from a given list of lists.

Original list of lists:

[['Red', 'Maroon', 'Yellow', 'Olive'], ['#FF0000', '#800000', '#FFFF00', '#808000'], ['rgb(255,0,0)', 'rgb(128,0,0)', 'rgb(255,255,0)', 'rgb(128,128,0)']]

Remove 1st list from the saod given list of lists:

[['Maroon', 'Yellow', 'Olive'], ['#800000', '#FFFF00', '#808000'], ['rgb(128,0,0)', 'rgb(255,255,0)', 'rgb(128,128,0)']]

Remove 2nd list from the saod given list of lists:

```
[['Red', 'Yellow', 'Olive'], ['#FF0000', '#FFFF00',
'#808000'], ['rgb(255,0,0)', 'rgb(255,255,0)',
'rgb(128,128,0)']]

Remove 4th list from the saod given list of lists:
[['Red', 'Maroon', 'Yellow'], ['#FF0000', '#800000',
'#FFFF00'], ['rgb(255,0,0)', 'rgb(128,0,0)',
'rgb(255,255,0)']]
141. Write a Python program to remove empty lists from a given list of lists.
```

Original list:

[[], [], 'Red', 'Green', [1, 2], 'Blue', [], []]
After deleting the empty lists from the said lists of lists
['Red', 'Green', [1, 2], 'Blue']

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

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:

12

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

15

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

9

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

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:

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

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:

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

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

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]

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

Original tuple:

[10, 2, 56]

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

14

Original tuple:

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

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

Original lists:

Interleave two given list into another list randomly:

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

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']
149. Write a Python program to get all possible combinations
of the elements of a given list.
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']]
150. Write a Python program to reverse a given list of lists.
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]]

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

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)

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

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]

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

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

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

Original lists:

Join the said two lists element wise:

Original lists:

Join the said two lists element wise:

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

Original lists:

$$[3, 3, -1, 7]$$

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]

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

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]

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

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]

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

Original list with tuples:

Maximum and minimum values of the said list of tuples:

(78, 60)

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

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]]

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

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]

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.

True

False

False

False

False

False

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

Original list:

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

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

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:

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

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

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

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

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]]

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

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]

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

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']]

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

Original list:

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

Display each element vertically of the said list:

а

b

С

d

е

f

Original list:

Display each element vertically of the said list of lists:

- 1 4 7
- 2 5 3
- 5 8 6

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

Original list:

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

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

Original list:

Insert a in the said list after 2 nd element:

Insert b in the said list after 4 th element:

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

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

Original lists:

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

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

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

Concatenate element-wise three said lists:

['Ored100', '1green200', '2black300', '3blue400',
'4white500']

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

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]

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

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']

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

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]

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

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]

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

Original list:

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

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

[0.7777777777778, 0.25, 1.5, 1.3333333333333333, 3.0, 2.0, 1.5]

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

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:

Common elements of the said list of lists:

['c']

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

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:

Insert Z in said list after every 3 th element:

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

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

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:

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

Original list:

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

3404143749

Original list:

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

102030405060

Original list:

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

01245689

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

Original list:

Iterate the said list cyclically on specific index position 3:

Iterate the said list cyclically on specific index position 5
:

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

Original list:

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

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

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

Original list:

Unique values of the said list of lists:

Original list:

Unique values of the said list of lists:

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

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

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')]

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

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]

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

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]

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

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']

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

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)]

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

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']

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

Original lists:

3 Number of largest products from the said two lists:

4 Number of largest products from the said two lists:

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

Original lists:

Maximum value of the said three lists:

9

Minimum value of the said three lists:

0

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

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)]
193. Write a Python program to find the dimension of a given
matrix.
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)
194. Write a Python program to sum two or more lists, the
lengths of the lists may be different.
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]
195. Write a Python program to traverse a given list in
reverse order, also print the elements with original index.
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
196. Write a Python program to move a specified element in a
given list.
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']

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

Original list:

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

[4.8, 5.8, 6.8, 8.0, 11.0]

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

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:

[]

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

Original lists:

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

Convert the said unicode list to a list contains strings:

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

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

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]]

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

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

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

Original list:

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

Indexes of all None items of the list:

[1, 4, 6, 7]

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

Original list:

Join adjacent members of a given list:

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

Original list:

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

Join adjacent members of a given list:

['12']

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

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
205. Write a Python program to find the indices of elements
of a given list, greater than a specified value.
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
[]
206. Write a Python program to remove additional spaces in a
given list.
Original list:
['abc ', ' ', ' ', 'sdfds ', ' ', ' ', 'sdfds ', 'huy']
```

```
Remove additional spaces from the said list:

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

207. Write a Python program to find the common tuples between two given lists.

Original lists:

```
[('red', 'green'), ('black', 'white'), ('orange', 'pink')]
[('red', 'green'), ('orange', 'pink')]
Common tuples between two said lists
[('orange', 'pink'), ('red', 'green')]
Original lists:
[('red', 'green'), ('orange', 'pink')]
[('red', 'green'), ('black', 'white'), ('orange', 'pink')]
Common tuples between two said lists
[('orange', 'pink'), ('red', 'green')]
```

208. Sum a list of numbers. Write a Python program to sum the first number with the second and divide it by 2, then sum the second with the third and divide by 2, and so on.

Original list:

Sum the said list of numbers:

Original list:

$$[0, 1, -3, 3, 7, -5, 6, 7, 11]$$

Sum the said list of numbers:

[0.5, -1.0, 0.0, 5.0, 1.0, 0.5, 6.5, 9.0]