In [ ]:

Group Elements of Same Indices using Python

Grouping elements of the same indices means grouping elements of two or more data structures according to their indices. It is a tricky problem for beginners and can be asked in any coding interview. If you want to learn more about grouping items from the same index, this article is for you. In this article, I'll walk you through a tutorial on how to group elements of the same indices using Python.

To group elements of the same index, you will initially have two or more lists inside a list like [[a, b], [c, d]]. To group the elements of these lists, you need to create two new lists where you will store the elements of both the lists at index 0 [a, c] and index 1 [b, d]. That is the meaning of grouping the elements of the same indices.

Now below is how you can group the elements of the same indices using the Python programming language:

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```
inputLists = [[10, 20, 30], [40, 50, 60], [70, 80, 90]]
outputLists = []
index = 0

for i in range(len(inputLists[0])):
    outputLists.append([])
    for j in range(len(inputLists)):
        outputLists[index].append(inputLists[j][ index])
    index = index + 1
a, b, c = outputLists[0], outputLists[1], outputLists[2]
print(a, b, c)
```

```
[10, 40, 70] [20, 50, 80] [30, 60, 90]
```

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Summary

To group items of the same indices, you will initially have two or more lists inside a list like [[a, b], [c, d]], and you need to create two new lists where you will store the elements of both the lists at index 0 [a, c] and index 1 [b, d]. I hope you liked this article on grouping the elements of the same indices using Python. Feel free to ask valuable questions in the comments section below.

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