

# CPB221 Exercise ch07-1

## 7-1. Concatenate two string lists

- Get input two strings and divide each string by word to create a list.
- Concatenate the elements of the two lists by index to create new list.
- Add unpaired elements to the end of the new list.

```
Input string 1: hello every students
Input string 2: it's my pleasure
["helloit's", 'everymy', 'studentspleasure']
Input string 1: He wo py
Input string 2: llo rld thon !!
['Hello', 'world', 'python', '!!!']
Input string 1: test1 test2
Input string 2: test3
['test1test3', 'test2']
Input string 1: great
Input string 2:
['great']
```

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## 7-2. Access list elements

- The following list is given (not user input).

```
list = [1, 2, 3, [4, 5, (6, 7), 8, [9], 10], (11, [12, 13]), [14, 15, 16]]
```

- When printing some elements of the list, write the code so that the output is as follows.

<code>print(list</code>	<code>)</code>	<code>1</code>
<code>print(list</code>	<code>)</code>	<code>[2, 3]</code>
<code>print(list</code>	<code>)</code>	<code>(6, 7)</code>
<code>print(list</code>	<code>)</code>	<code>9</code>
<code>print(list</code>	<code>)</code>	<code>[9]</code>
<code>print(list</code>	<code>)</code>	<code>[[9]]</code>
<code>print(list</code>	<code>)</code>	<code>13</code>
<code>print(list</code>	<code>)</code>	<code>[[14, 15, 16]]</code>

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## 7-3. Sort digits

- Get input a number and sort each digit of the number in descending order.

Input number: 1234

4321

Input number: 77282

87722

Input number: 267340278

877643220

Input number: 987898789

999888877