



Standardize Mobile Number Using Decorators ★

97/115 challenges solved
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Let's dive into decorators! You are given **N** mobile numbers. Sort them in ascending order then print them in the standard format shown below:

```
+91 xxxxx xxxxx
```

The given mobile numbers may have **+91**, **91** or **0** written before the actual **10** digit number. Alternatively, there may not be any prefix at all.

Input Format

The first line of input contains an integer **N**, the number of mobile phone numbers.

N lines follow each containing a mobile number.

Output Format

Print **N** mobile numbers on separate lines in the required format.

Sample Input

```
3
07895462130
919875641230
9195969878
```

Sample Output

```
+91 78954 62130
+91 91959 69878
+91 98756 41230
```

Concept

Like most other programming languages, Python has the concept of closures. Extending these closures gives us decorators, which are an invaluable asset. You can learn about decorators in 12 easy steps [here](#).

To solve the above question, make a list of the mobile numbers and pass it to a function that sorts the array in ascending order. Make a decorator that standardizes the mobile numbers and apply it to the function.

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Language

Python 3



```
1 def wrapper(f):
2     def fun(l):
3         # complete the function
4         # Do not modify the function signature
```

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```
4         # Process numbers to standard format
5         formatted = []
6         for num in l:
7             # Remove any existing +91 or 0 prefixes
8             clean_num = num[-10:] # Take last 10 digits
9             formatted.append(f"+91 {clean_num[:5]} {clean_num[5:]}")
10        return f(formatted)
11    return fun
12
13 @wrapper ...
```

EMACS

Line: 1 Col: 1

[Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

You have earned 30.00 points!

97/115 challenges solved.

84%



Congratulations

You solved this challenge. Would you like to challenge your friends?

[Next Challenge](#) **Test case 0**

Compiler Message

Test case 1

Success

Test case 2

Input (stdin)

1 | 3

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 Test case 3 	2	07895462130
	3	919875641230
 Test case 4 	4	9195969878
 Test case 5 	Expected Output	
	1	+91 78954 62130
 Test case 6 	2	+91 91959 69878

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