

SECTION 6: METHODS AND FUNCTIONS, 2 hours 54 mins, 30 parts

○ 20/29 Coding Exercise 19: Functions #10: skyline

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**Functions #10:
skyline**

Define a function called **myfunc** that takes in a string, and returns a matching string where every even letter is uppercase, and every odd letter is lowercase. Assume that the incoming string only contains letters, and don't

exercise.py

```
1 def myfunc(input_string):
2     result = ""
3     for i in range(len(input_string)):
4         if i % 2 == 0:
5             result += input_string[i].lower()
6         else:
7             result += input_string[i].upper()
8     return result
```

Run tests

Run code

All changes saved | Line 8, Column 18

Result

Success

↑

▸ problem solving thought process

- -> we've initialised a string which we are returning
- -> then we define a for loop iterating through each character in the string
- -> if the element in that string is even (i.e it modulo, %, 2 is zero) -> then we are adding it to the result which we later return
 - -> we use i because this is the index of that character in the input string
 - -> we populating the result using the += approach, and doing so using .lower()
- -> if we are dealing with anything else -> we are using the same process, but adding the uppercase form of the string to the returned result
- -> this gives us a function which takes a string and outputs the same thing but with all of the even elements as lowercase and other elements as uppercase