Practice Quiz: Strings

1. The is_palindrome function checks if a string is a palindrome. A palindrome is a string that can be equally read from left to right 1/1 point or right to left, omitting blank spaces, and ignoring capitalization. Examples of palindromes are words like kayak and radar, and phrases like "Never Odd or Even". Fill in the blanks in this function to return True if the passed string is a palindrome, False if

```
def is_palindrome(input_string):
                                                                                 is_palindrome(input_string):

# We'll create two strings, to compare them
new_string = ("").join(input_string.split(" "))
reverse_string = ""
# Traverse through each letter of the input string
for i in range (len(new_string)):

# Add any non-blank letters to the
# end of one string, and to the front
# of the other string.

if new_stringfl.unper()== new_stringf.i.lunper
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                                                                                                           if new_string[i].upper()== new_string[-i-1].upper():
                                                                               reverse_string = reverse_string + new_string[i].upper()
# Compare the strings
if new_string.upper()== reverse_string.upper():
                                                                          return True
return False
                                                     print(is_palindrome("Never Odd or Even")) # Should be True
print(is_palindrome("abc")) # Should be False
print(is_palindrome("kayak")) # Should be True
True
False
True
✓ Correct
                                     Woohoo! You're quickly becoming the Python string expert!
```

2. Using the format method. fill in the gaps in the convert_distance function so that it returns the phrase "X miles equals Y km", with Y having only 1 decimal place. For example, convert_distance(12) should return "12 miles equals 19.2 km".

Congrats! You're getting the hang of formatting strings,

12 miles equals 19.2 km 5.5 miles equals 8.8 km 11 miles equals 17.6 km

print(convert_distance(12)) # Should be: 12 miles equals 19.2 km print(convert_distance(5.5)) # Should be: 5.5 miles equals 8.8 km print(convert_distance(11)) # Should be: 11 miles equals 17.6 km



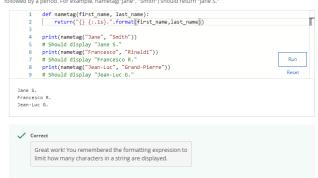
3. If we have a string variable named Weather = "Rainfall", which of the following will print the substring or all characters

1/1 point before the "f":





4. Fill in the gaps in the nametag function so that it uses the format method to return first_name and the first initial of last_name 1/1 point followed by a period. For example, nametag("Jane", "Smith") should return "Jane S."



5. The replace_ending function replaces the old string in a sentence with the new string, but only if the sentence ends with the old string. If there is more than one occurrence of the old string in the sentence, only the one at the end is replaced, not all of them. For example, replace_ending("abcabc", "abc", "xyz") should return abcxyz, not xyzxyz or xyzabc. The string comparison is case-sensitive, so replace_ending("abcabc", "ABC", "xyz") should return abcabc (no changes made).

```
| def replace_ending(sentence, old, new):
| # Check if the old string is at the end of the sentence
| if old in sentence [[-len(old):]]:
| # Using i as the slicing index, combine the part
| # of the sentence up to the matched string at the
| # end with the new string
| i = len(sentence)-len(old)
| new_sentence = sentence[:]+new
| return new_sentence
| new_sentence = sentence[:]+new
| return sentence
| new_sentence = sentence[:]+new
| return sentence
| new_sentence = sentence[:]+new
| return sentence
| new_sentence = sentence[:]+new
| return sentence | new_sentence | new
```