

0. Fixed Character Width (v1)

(Level: Easy)

You are given a string as the parameter of a function. Now, you should make sure that it is EXACTLY 10 characters long.

How?

If the string is longer than 10 characters, remove the extra characters from the end.

If the string is shorter than 10 characters, add extra blank spaces to the beginning.

Example

For `fixedCharWidth("Big")` , the output should be

Big

(seven spaces before Big)

For `fixedCharWidth("Electrodynamics")` , the output should be

Electrodyn

In [36]:

```
def fixedCharWidth(word):  
    # put your code below this line ↴  
    length = len(word)  
    #print(length)  
    if length <= 10:  
        word = " "(10 - length) + word  
    else:  
        word = word[:10]  
  
    print(word)  
    return word
```

In []:

Run the following test cases, if your function is the correct one, you should see only `True` in the output of each line:

In [38]:

```
print("0123456789") #10 character width

print(fixedCharWidth("Big")=="      Big")
print(fixedCharWidth("Electrodynamics")=="Electrodyn")
print(fixedCharWidth("Friends in high places")=="Friends in")
print(fixedCharWidth("Cheese!!!!")=="Cheese!!!!")
```

```
0123456789
      Big
True
Electrodyn
True
Friends in
True
Cheese!!!!
True
```

1. Fixed Character Width (v2)

(Level: Easy)

This time, you are given a string and the number of characters as the parameters of a function. This time, instead of 10 by default, you will have to take the number of characters from the function input as well.

How?

If the string is longer than 10 characters, remove the extra characters from the end.

If the string is shorter than 10 characters, add extra blank spaces to the beginning.

Example

For `fixedCharWidth2("Big", 5)`, the output should be

Big (two spaces before Big)

For `fixedCharWidth2("Electrodynamics", 7)`, the output should be

Electro

In [42]:

```
def fixedCharWidth2(word, n):
    # put your code below this line ↴
    length = len(word)
    #print(length)
    if length <= n:
        word = " "(n - length) + word
    else:
        word = word[:n]

    print(word)
    return word

fixedCharWidth2("Big", 5)
```

Big

Out[42]:

' Big'

Run the following test cases, if your function is the correct one, you should see only `True` in the output of each line:

In [44]:

```
print(fixedCharWidth2("Big", 5)==" Big")
print(fixedCharWidth2("Electrodynamics",7)=="Electro")
print(fixedCharWidth2("Friends in high places", 27)==" Friends in high places")
print(fixedCharWidth2("Cheese!!!!",10)=="Cheese!!!!")
```

```
Big
True
Electro
True
Friends in high places
True
Cheese!!!!
True
```

2. Proper Name

(Level: Medium)

You are given the name of a person in small letters. You will need to capitalize just the first letter of each new word that is present in it.

Example

For `properName("james bond")` , you must return:

James Bond

► Hint

In [63]:

```
def properName(name):  
    # put your code below this line ↴  
  
    name2 = name.split(" ")  
    name3 = name2[0].capitalize() + " " + name2[1].capitalize()  
    return name3  
  
properName("uzumaki naruto")
```

Out[63]:

'Uzumaki Naruto'

Run the following test cases, if your function is the correct one, you should see only `True` in the output of each line:

In [64]:

```
print(properName("james bond") == "James Bond")  
print(properName("isaac newton") == "Isaac Newton")  
print(properName("ben tennyson") == "Ben Tennyson")  
print(properName("nobita nobi") == "Nobita Nobi")  
print(properName("uzumaki naruto") == "Uzumaki Naruto")
```

True
True
True
True
True

3. Replacement Logic

(Level: Medium)

A few days ago, the Prakritik Committee was renamed the Bhaumik Society. As a result, they need to change their name in all their documents.

Help them out, with your knowledge of Python!

(if the name Committee is omitted, then omit the name Society as well, but if it is present, then you should change it as well)

Example

For `praksToBhaums("Prakritik Committee Sangeet Dal")` , the output should be:

Bhaumik Society Sangeet Dal

And, for `praksToBhaums("Prakritik Players Squad")` , the output should be:

Bhaumik Players Squad .

In [72]:

```
def praksToBhaums(oldName):  
    # put your code below this line ↴  
    if "Prakritik Committee" in oldName:  
        oldName = oldName.replace("Prakritik Committee", "Bhaumik Society")  
  
    elif "Prakritik" in oldName:  
        oldName = oldName.replace("Prakritik", "Bhaumik")  
  
    return oldName
```

Out[72]:

'Bhaumik Society Sangeet Dal'

Run the following test cases, if your function is the correct one, you should see only True in the output of each line:

In [73]:

```
print(praksToBhaums("Prakritik Committee Sangeet Dal")== "Bhaumik Society Sangeet Dal")  
print(praksToBhaums("Prakritik Players Squad")== "Bhaumik Players Squad")  
print(praksToBhaums("Maroon 5 Fans")== "Maroon 5 Fans")
```

True

True

True

In []: