Intro to STRINGS

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Remember Range(start, end, step) from for loops? The same is used for slicing strings!
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Word = "Hello_Codewiz!"
                                             (Ignore spaces - used to align indexes)
       0 1 2 3 4 5 6 7 8 9 10 11 12 13
Word[start : end : step]
Word[1] = "e"
Word[1:5] = "ello"
Word[1:5:2] = "el"
Len(string) - Returns the number of characters in the string
count(string) - Returns the number of occurrences of a string
Word.count("e")
>>> 2
if "Hello" in Word:
      print("Yes")
else:
      print("no")
>>> Yes
find(string) - Returns the index where the target string starts (or -1 if not found)
Word.find("H")
>>> 0
Word.find("Hello")
>>> 0
rfind(string) - Same as find() but in reverse, searching backward to front for the
first occurrence)
Word.rfind("e")
>>> 9
Word.find("wiz")
>>> 10
```

```
HOW TO SLICE:
                                                  string find("A") - first index of an "A" in the string
guess="Hello"
                                                  string.rfind("A") - Same as string.find("A") in reverse
                                                  string.find("A", 1) - first index of an "A" in the string
string[start : end : step]
guess[1] = "e"
                                                  starting at index 1 (instead of starting at index 0)
string[1:5] = "ello"
                                                  len(string) - how many characters are in the string
string[1:5:2] = "el"
                                                  string.count("f") - how many "f" in the string
                                                  Swap Two Words:
Two Halves:
string = input()
                                                  string = input()
middle index = len(string) // 2
                                                  space_index = string.find(" ")
first_half = string[0:middle_index]
                                                  first_word = string[ 0 : space_index ]
second half = string[middle index:len(string)]
                                                  second_word = string[ ____ : ____ ]
print(second half + first half)
                                                  print(second word + first word)
First & Last Occurrence:
                                                  Second Occurrence:
string = input()
                                                  string =
count = string.count("f")
                                                  count = string.count("p")
if count == 0:
                                                  if count == :
  print(-1)
                                                     print(-2)
elif count == 1:
                                                  elif count == ___:
  first_index = string.find("f")
                                                     print(-1)
  print(first_index)
                                                  else:
else:
                                                     first index = string.find( "p")
  first_index = string.find("f")
                                                     second_index = string.find( "p" , first_index + 1)
                                                     print(_____)
  last index = string.rfind("f")
  print(first_index, last_index)
Remove Fragment:
                                                  Reverse Fragment:
string = input()
                                                  string = input()
                                                  first_index = _____
first_index = string.find( "h")
last index = string.rfind( "h")
                                                  last_index = _____
first frag = string[0:first index]
                                                  first_frag = string[ __ : _____
                                                  middle_frag = string[ ____ : _____
middle frag = string[first index:last index+1]
                                                  last_frag = string[ ____
last frag = string[last index+1:len(string)]
                                                  # Hint: the step should be negative
middle frag.replace("h", "H")
print(first frag + middle frag + last frag)
                                                  middle frag flipped = string[last index : first index: ]
                                                  print(first frag + middle frag flipped + last frag)
Replace:
                                                  Delete Character:
string = input()
                                                  string = input()
for index in range(len(string)):
                                                  for index in range(len(string)):
 Letter = string[index]
                                                   if index \% 3 == 0:
 if Letter == '1':
                                                     print( "", end="")
  print("one", end="")
                                                   else:
 else:
                                                     print(string[index], end="")
  print(Letter, end="")
```