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# File: MyStringFunctions.py
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# Description of Program: Building a string library and defining a collection of
functions on strings
def myAppend( str, ch ):
    # Return a new string with character ch added at the end
    return str + ch
def myCount( str, ch ):
   # Return the number of times character ch appears in str.
    counter = 0
    for letter in range(len(str)):
        if str[letter] == ch:
            counter += 1
    return counter
def myExtend( str1, str2 ):
    # Return a new string that contains the elements of
    # str1 followed by the elements of str2, in the same
    # order they appear in str2.
    str3 = str1 + str2
   return str3
def myMin( str ):
    # Return the character in str with the lowest ASCII code.
   if str == "":
        print("Empty string: no min value")
        return
    else:
        minimum = ord(str[0 : 1])
        for letter in str:
            asciiValue = int(ord(letter))
            if asciiValue < minimum:
                minimum = asciiValue
        return chr(minimum)
def myInsert( str, i, ch ):
    # Return a new string like str except that ch has been
    # inserted at the ith position. Print "Invalid index" if
    # i is greater than the length of str and return None.
   number = len(str)
    if i > number:
        print("Invalid index")
        return
    elif i == 0:
        return ch + str
   elif i == number:
        return str + ch
    elif 0 < i < number:
        return str[0 : i] + ch + str[ i : ]
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def myPop( str, i ):
    # Return two results:
    # 1. a new string that is like str but with the ith
         element removed;
    # 2. the value that was removed.
    # Print "Invalid index" if i is greater than or
    # equal to len(str), and return str unchanged and None
    number = len(str)
    if i > number or i == len(str):
        print("Invalid index")
        return str, None
    elif i == "0":
        return str[1 : ] , str[ i : i+1 ]
   else:
         return str[0:i] + str[i+1:], str[i:i+1]
def myFind( str, ch ):
    # Return the index of the first (leftmost) occurrence of
    # ch in str, if any. Return -1 if ch does not occur in str.
    if ch not in str:
        return -1
    elif ch in str:
        letterFound = str.index(ch)
        return letterFound
def myRFind( str, ch ):
    # Return the index of the last (rightmost) occurrence of
    # ch in str, if any. Return -1 if ch does not occur in str.
    if ch not in str:
        return -1
   else:
        letterFound = -1
        for letter in range(0, len(str)):
            if str[letter] == ch:
                letterFound = letter
        return letterFound
def myRemove( str, ch ):
    # Return a new string with the first occurrence of ch
    # removed. If there is none, return str.
    if ch not in str:
        return str
    elif ch in str:
        letter = str.index(ch)
        if str[letter] == ch:
            newString = str[0 : letter] + str[ letter + 1 : ]
        return newString
def myRemoveAll( str, ch ):
    # Return a new string with all occurrences of ch.
   # removed. If there are none, return str.
   endString = ""
    if ch not in str:
       return str
    elif ch in str:
        for letter in str:
            if letter == ch:
                pass
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