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Assignment: repeat

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Text

Description automatically generated

user\_string = input("Please enter the string: ")

max\_repeat\_count = 1

max\_repeat\_char = ''

current\_count = 1

current\_char = ''

def find\_current\_char(index):

    return user\_string[(index - 1):(index)]

def find\_next\_char(index):

    return user\_string[(index):(index + 1)]

def set\_max(count, char):

    global max\_repeat\_count, max\_repeat\_char

    max\_repeat\_count = count

    max\_repeat\_char = char

def result(count, char):

    return f"The longest sequence is {char} repeated {count} times"

def main():

    for char\_index in range(1, len(user\_string)+1):

        consc\_char = find\_next\_char(char\_index)

        current\_char = find\_current\_char(char\_index)

        if (current\_char == consc\_char):

            current\_count += 1

            if (current\_count > max\_repeat\_count):

                set\_max(current\_count, current\_char)

        else:

            current\_count = 1

main()

print(result(max\_repeat\_count, max\_repeat\_char))