

Find the number of a given character in a sequence

Time Limit: 20.0s **Memory Limit:** 64M

How does a Python for loop work?

A Python for loop is used for iterating over a sequence of things (the letters in a string, a list of names, or a range of integers).

The format is:

```
for val in sequence:  
    loop code (indented block)
```

Here, val is the variable that takes the value of the item inside the sequence on each iteration.

Consider the following code:

```
for x in "123":  
    print(x)
```

The above code will print:

```
1  
2  
3
```

Your program

1. Write a program that uses a for loop to count the number of times a given character occurs in a sequence of characters.
2. Your program will first input a sequence of characters, such as a sentence, name, or a number.
3. Then your program will input the character that you want to find the number of occurrences in the sequence.
4. Then your program will output the number of times that the character was found in the sequence.
5. Note that your program should be case sensitive.
6. For example, if you first enter **Coding Contest** and then enter **C**, the result will be 2.

Sample Input #1

```
Mi$$iSSauga  
$
```

Sample Output #1

2

Sample Input #2

Toronto Ontario
o

Sample Output #2

4

Sample Input #3

$355/113=3.14159$
3

Sample Output #3

3