Finger Exercises Lecture 13

The questions below are due on Wednesday October 26, 2022; 03:00:00 PM.

1) Question 1 of 1

Implement the function that meets the specification below.:

```
def sum_str_lengths(L):
    """
    L is a non-empty list containing either:
    * string elements or
    * a non-empty sublist of string elements
    Returns the sum of the length of all strings in L and
    lengths of strings in the sublists of L. If L contains an
    element that is not a string or a list, or L's sublists
    contain an element that is not a string, raise a ValueError.
    """
    # Your code here

# Examples:
print(sum_str_lengths(["abcd", ["e", "fg"]]))  # prints 7
print(sum_str_lengths([12, ["e", "fg"]]))     # raises ValueError
print(sum_str_lengths(["abcd", [3, "fg"]]))   # raises ValueError
```

```
1  # your function here
```

You have infinitely many submissions remaining.

Here is the solution we wrote:

```
def sum_str_lengths(L):
    total = 0
    for i in L:
        if type(i) == str:
           total += len(i)
        elif type(i) == list:
            for e in i:
                if type(e) == str:
                   total += len(e)
                else:
                    raise ValueError
        else:
            raise ValueError
    return total
```

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6.100L Introduction to CS and Programming Using Python

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