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Exercise: how many

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

Exercise: how many

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 6 minutes

Consider the following sequence of expressions:

```
animals = { 'a': ['aardvark'], 'b': ['baboon'], 'c': ['coati']}

animals['d'] = ['donkey']
animals['d'].append('dog')
animals['d'].append('dingo')
```

We want to write some simple procedures that work on dictionaries to return information.

First, write a procedure, called `how_many`, which returns the sum of the number of values associated with a dictionary. For example:

```
>>> print(how_many(animals))
6
```

```
1 def how_many(aDict):
2     '''
3     aDict: A dictionary, where all the values are lists.
4
5     returns: int, how many values are in the dictionary.
6     '''
7     # Your Code Here
8     qtde=0
```



```
9     for valor in aDict.values():
10         qtde += len(valor)
11     return qtde
```

Press ESC then TAB or click outside of the code editor to exit

Correta

```
def how_many(aDict):
    """
    aDict: A dictionary, where all the values are lists.

    returns: int, how many individual values are in the dictionary.
    """
    result = 0
    for value in aDict.values():
        # Since all the values of aDict are lists, aDict.values() will
        # be a list of lists
        result += len(value)
    return result

def how_many(aDict):
    """
    Another way to solve the problem.

    aDict: A dictionary, where all the values are lists.

    returns: int, how many individual values are in the dictionary.
    """
    result = 0
    for key in aDict.keys():
        result += len(aDict[key])
    return result
```

Test results

[Hide output](#)

CORRECT

Test: how_many({'u': [10, 15, 5, 2, 6], 'B': [15]})

Output:



6

[Hide output](#)

Important: If you are getting a message Incorrect: Something went wrong: tests don't match up. please click Check until you get a different error message or you get the green Correct. We apologize for the inconvenience.

[Enviar](#)

i Answers are displayed within the problem

Exercise: how many

[Ocultar discussão](#)

Topic: Lecture 6 / Exercise: how many

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- ? [Spoiler! I don't understand the code they show](#) 2
They show the following code, but when I enter it with the original list of animals I get a result of 3...
- ? [Spoiler! Why doesn't this work?](#) 1
def how_many(aDict): count = 0 for i in aDict.keys(): val = aDict[i] if isinstance(val, str): count = cou...
- ? [Can't we use a list comprehension method?](#) 7
I tried doing list comprehension method which returns the same value. I used the below code. pri...
- ? [Why doesn't this code work?](#) 2
def how_many(aDict): total = 0 for n in aDict: if type(n) is list: total += len(n) elif type(n) is tuple: tot...
- 💬 [Do by 1 line](#) 7
Hint: use sum(), list comprehension and dict.values().
- ? [SPOILER! This kept giving me an incorrect.](#) 3
This kept giving me an incorrect. I don't understand why? Can anyone please explain it to me! Tha...
- 💬 [My code worked, but ... \[concerning the dictionary given above\]](#) 1
Hi everyone I noticed, there is this part given in the question: animals = { 'a': ['aardvark'], 'b': ['bab...
- 💬 [Spoiler: code below. Help understanding code difference](#) 3
I have submitted the following code, which has worked: total = 0 for letter in aDict: a = aDict[letter]...
- 💬 [Spoiler: Another solution - looking for pros/cons](#) 2 new_
Here's how I solved it, which defers from the two answers given: def how_many(aDict): count = 0 f...

- | | |
|--|---------|
| ? <u>Name error</u> | 2 |
| <u>I have encountered with the name error problem. How should I define the name 'aDict' in this ex...</u> | |
| ? <u>Python Tutor visualize execution</u> | 2 |
| <u>How do I type in my code to visualize the execution (http://www.pythontutor.com/visualize.html#...)</u> | |
| ? <u>Trouble with definition</u> | 2 |
| <u>Do we have to define aDicts first? Also, is there a way to include a list within a list? Also, would a f...</u> | |
| 💬 <u>lists within lists within lists</u> | 10 new_ |
| <u>I wasn't able to write code that accounted for the hypothetical case of a list within one of the lists....</u> | |

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