

Curso > Week 3... > 6. Dicti... > Exercis...

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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
     # Your Code Here
8
     qtde=0
```

```
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:
```

<u>Hide output</u>

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

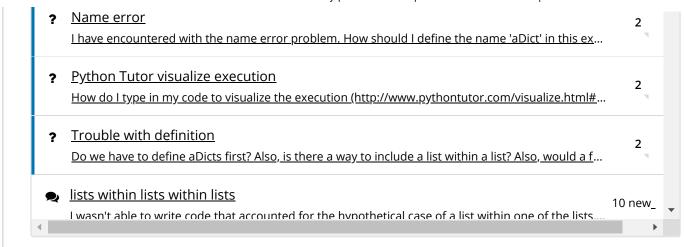
1 Answers are displayed within the problem

Exercise: how many

Ocultar discussão

Topic: Lecture 6 / Exercise: how many

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



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