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Exercise: how many

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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







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-  [lists within lists within lists](#) 4 new_
I wasn't able to write code that accounted for the hypothetical case of a list within one of the lists, bu...
-  [What is the learning goal of this exercise?](#) 1 new_ 3
Is it to figure out how to evaluate the contents of a dictionary? Or is it something else?
-  [Spoiler: Another solution - looking for pros/cons](#) 1 new_
Here's how I solved it, which defers from the two answers given: `def how_many(aDict): count = 0 for...`
-  [Why did the example return 6?](#) 5
If I am sticking strictly to the instruction, I would assume the there are only 4 values in the dictionary,...
-  [Should we define the dictionary animals in the code?](#) 3
I got the error "NameError: name 'animals' is not defined". In most exercises so far we we've been in...
-  [Something went wrong: tests don't match up.](#) 4
Should i be getting these even if I have the right answer? I tried it in IDLE and it seemed to work, but...

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