edX

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Exercise: biggest

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

Exercise: biggest

5.0/5.0 points (graded)
ESTIMATED TIME TO COMPLETE: 7 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.

This time, write a procedure, called `biggest` , which returns the key corresponding to the entry with the largest number of values associated with it. If there is more than one such entry, return any one of the matching keys.

Example usage:

```
>>> biggest(animals)
'd'
```

If there are no values in the dictionary, `biggest` should return `None` .

```
1 def biggest(aDict):
2     '''
3     aDict: A dictionary, where all the values are lists.
```

```
 4
 5      returns: The key with the largest number of values associated with it
 6      '''
 7      # Your Code Here
 8      qtde, quem =0, ''
 9      for valor in aDict:
10          # print(valor, aDict[valor])
11          if len(aDict[valor]) > qtde:
12              qtde, quem = len(aDict[valor]), valor
13              # print(qtde, aDict[valor])
14      return quem
```

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

Correta

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

    returns: The key with the largest number of values associated with it
    '''
    result = None
    biggestValue = 0
    for key in aDict.keys():
        if len(aDict[key]) >= biggestValue:
            result = key
            biggestValue = len(aDict[key])
    return result
```

Test results

Hide output

CORRECT

Test: biggest({'b': [1, 7, 5, 4, 3, 18, 10, 0], 'a': []})

Output:

'b'

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

ℹ️ Answers are displayed within the problem

Exercise: biggest

Ocultar discussão

Topic: Lecture 6 / Exercise: biggest

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💬 **Spoiler: I used the max(aDict) function**
The above worked in pythontutor.org and when I run on python shell. However got error and 0/5 ...   **5**

❓ **Incorrect: Something went wrong: tests don't match up**
Hi, I am still getting the message Incorrect: "tests don't match up" after after continuously clicking...   **3**

❓ **My code returns the value, not the key!!**
def biggest(aDict): if len(aDict) == 0: return None else: maxlength = 0 for n in aDict: if len(n) > maxl...   **2**

💬 **Spoiler:: Help**
def how_many(animals): max_key = max(animals,key=animals.get) return max_key actually i finis...   **1**

❓ **Square Brackets**
Why is my output ['b'] instead of 'b'. When I put it in Python tutor, it seems to work perfectly well. ...   **2**

💬 **NO BLANK LINES INSIDE THE CODING BOX**
NO BLANK LINES INSIDE THE CODING BOX Otherwise, something that can work inside e.g. spyder...   **1**

💬 **Please comment areas of improvement on my solution**
def biggest(aDict): ''' aDict: A dictionary, where all the values are lists. returns: The key with the lar...   **6**

❓ **(Spoiler) (TA help): using .get without anything specified.**
So i answered this question in a round about way. When i was looking for better solution, i found ...   **3**

💬 **SPOILER: Incorrect: Something went wrong: tests don't match up**
Important: If you are getting a message Incorrect: Something went wrong: tests don't match up. p...   **1**

❓ **Only one test case is not sufficient**
Only one test case is evaluated by the grader. I think only one test case is not sufficient to check t...   **2**

💬 **Don't know how to start**
I'm not sure where to start when solving this problem. Can anyone help me or explain what their ...   **2**

✏️

?   [Help with code]   2

💬   [SPOILER Got a correct response, but wondering if this code would work if scaled larger?]   1

So I got a correct response from the grader, but seeing that there is only one test case this time a