edX

Audit Access Expires Ago 5, 2020
You lose all access to this course, including your progress, on Ago 5, 2020.
Upgrade by Jul 1, 2020 to get unlimited access to the course as long as it exists on the site. **Upgrade now**

Exercise: biggest
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]

ℹ   Answers are displayed within the problem

Exercise: biggest

Topic: Lecture 6 / Exercise: biggest

[Ocultar discussão]

Add a Post

| Show all posts ⌄ | por atividade recente ⌄ |

💬 **SPOILER: Completed exercise with one line, but not sure if it's the correct way of doing it.**
Hey all, I just used one line of code which returned the max key of the aDict parameter. After readin…   **1**

💬 **Spoiler Comprehension**
Hi Everyone, I tried using just comprehension for this exercise, but the expressions got a bit unwield…   1 new

---

❓ **I need your opinion**
I made this code first try and think it works, but can anyone tell me if it could be any simpler? def big…   1 new

---

💬 **[Spoiler] Wanna see other people's result**
My code was only 2 lines. Is it right to do in this way..?   6 new   **11**

❓ **Spoiler result=None**
Why do you need to first associate the variable result with the value None in the official answer? I ty…   1 new

---

❓ **Don't really understand what it means by "largest"?**
Please advise, does largest means the most number of items in value? I am confused… how does the…   **2**

💬 **Don't panic about the error. Had to re-submit like 6 times**
So if you get the error just keep trying   **3**