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Problem 3 - Valid Words

Problem Set due Jul 16, 2020 20:30 -03 Completo

Problem 3 - Valid Words

10.0/10.0 points (graded)

At this point, we have written code to generate a random hand and display that hand to the user. We can also ask the user for a word (Python's input) and score the word (using your getWordScore). However, at this point we have not written any code to verify that a word given by a player obeys the rules of the game. A *valid* word is in the word list; **and** it is composed entirely of letters from the current hand. Implement the isValidWord function.

Testing: Make sure the <code>test_isValidWord</code> tests pass. In addition, you will want to test your implementation by calling it multiple times on the same hand - what should the correct behavior be? Additionally, the empty string (<code>''</code>) is not a valid word - if you code this function correctly, you shouldn't need an additional check for this condition.

Fill in the code for <code>isValidWord</code> in <code>ps4a.py</code> and be sure you've passed the appropriate tests in <code>test_ps4a.py</code> before pasting your function definition here.

```
Does not mutate nand or wordlist.
 7
8
      word: string
9
      hand: dictionary (string -> int)
      wordList: list of lowercase strings
10
11
12
      if len(word) != 0 and word in wordList and set(word) <= set(hand):
13
          resposta = True
14
          for i in set(word):
15
              if word.count(i) > hand[i]:
16
                   resposta = False
17
      6156.
```

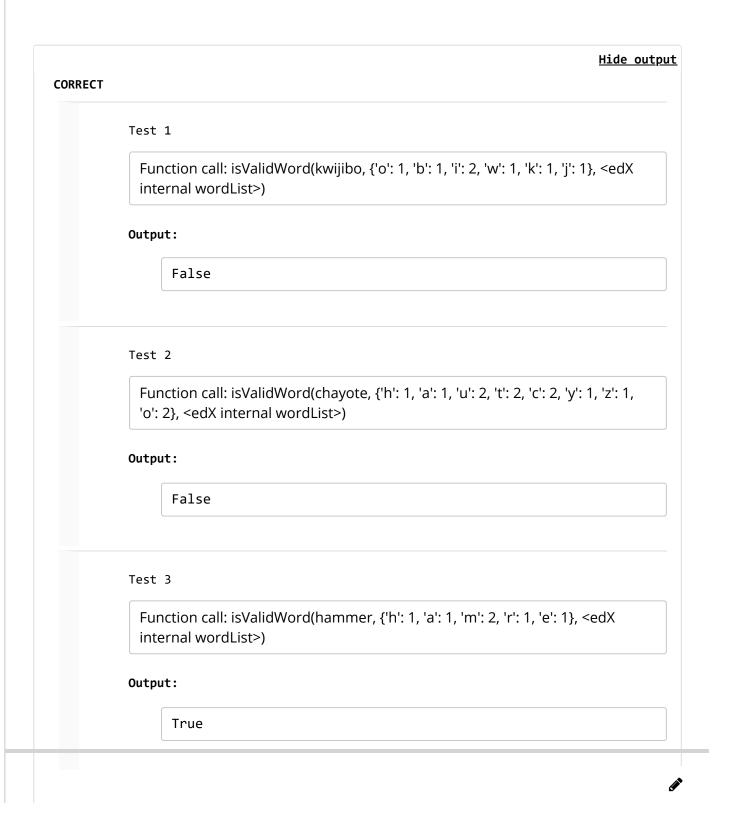
```
18 resposta = False

19
20 return resposta
```

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

Correta

Test results



Test	4
1636	-

Re-testing last test to see if you mutate the original hand

Output:

True

Test 4

Function call: isValidWord(rapture, {'p': 2, 'a': 3, 'u': 1, 't': 1, 'e': 1, 'r': 1}, <edX internal wordList>)

Output:

False

Random Test 1

Function call: isValidWord(hair, {'s': 1, 'o': 1, 'b': 2, 'm': 1, 't': 1, 'n': 1, 'd': 1, 'k': 1, 'a': 1, 'q': 1, 'j': 1}, <edX internal wordList>)

Output:

False

Random Test 2

Function call: isValidWord(pear, {'p': 2, 'a': 1, 'x': 1, 'w': 1, 'e': 1, 'c': 1, 'r': 1}, <edX internal wordList>)

Output:

True

Random Test 3

Re-testing last test to see if you mutate the original hand

Output:

False Random Test 4 Function call: isValidWord(shrimp, {'s': 2, 'r': 1, 'd': 1, 'i': 1, 'h': 1, 'm': 1, 'k': 1, 'b': 1, 'p': 1}, <edX internal wordList>) Output: True Random Test 5 Re-testing last test to see if you mutate the original hand Output: False Random Test 6 Function call: isValidWord(apple, {'x': 1, 's': 1, 't': 1, 'v': 1, 'f': 1, 'e': 1, 'z': 1, 'm': 3, 'k': 1, 'i': 1}, <edX internal wordList>) Output: False **Hide output** You have used 5 of 30 attempts Enviar Problem 3 - Valid Words Ocultar discussão **Topic:** Problem Set 4 / Problem 3 Show all posts por atividade recente

Introduction to Python

Good Evening Software Engineers, I thought this was to be a beginner class to Introduction to Pyt...

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