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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 `test_isValidWord` 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 (`''`) 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 `isValidWord` in `ps4a.py` and be sure you've passed the appropriate tests in `test_ps4a.py` before pasting your function definition here.

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

```
17         return resposta
18     resposta = False
19
20     return resposta
21
```

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

Correta

Test results

[Hide output](#)

CORRECT

Test 1

Function call: isValidWord(kwijibo, {'o': 1, 'b': 1, 'i': 2, 'w': 1, 'k': 1, 'j': 1}, <edX internal wordList>)

Output:

False

Test 2

Function call: isValidWord(chayote, {'h': 1, 'a': 1, 'u': 2, 't': 2, 'c': 2, 'y': 1, 'z': 1, 'o': 2}, <edX internal wordList>)

Output:

False

Test 3

Function call: isValidWord(hammer, {'h': 1, 'a': 1, 'm': 2, 'r': 1, 'e': 1}, <edX internal wordList>)

Output:

True



Test 4

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](#)

Enviar

You have used 5 of 30 attempts

Problem 3 - Valid Words

Ocultar discussão

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Introduction to Python

4

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

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