

[Course](#) > [Week 4...](#) > [Proble...](#) > [Proble...](#)

Audit Access Expires Aug 9, 2019

You lose all access to this course, including your progress, on Aug 9, 2019.

Problem 3 - Valid Words

Problem 3 - Valid Words

0.0/10.0 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.

```
1 def isValidWord(word, hand, wordList):
2     """
3     Returns True if word is in the wordList and is entirely
4     composed of letters in the hand. Otherwise, returns False.
5
6     Does not mutate hand or wordList.
7
8     word: string
9     hand: dictionary (string -> int)
```

```

10 wordList: list of lowercase strings
11 ""
12 # TO DO ... <-- Remove this comment when you code this function
13

```

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

Unanswered

Submit

You have used 0 of 30 attempts

Problem 3 - Valid Words

Hide Discussion

Topic: Problem Set 4 / Problem 3

Show all posts ▼

by recent activity ▼

- 🔍 [\[Spoiler\] Can someone please help me find problems with my code or post the solutions that received the full score?](#) 3
- 🔍 [Incorrect \(9.23/10 points\)](#) 4

[My output for Test1 term "kwijibo" is True but the grader suggests False. However, I am sure that ...](#)
- 🔍 [Python IDE not running my print statements on test_ps4a.py.](#) 2

[I am trying to tag some of my code and there is no descriptive output in my python reader \(just sa...](#)
- 💬 [Hint: edX internal wordlist is not sorted](#) 2

[I used binary search in my original program and it worked properly as the word list in zip archive ...](#)
- 🔍 [One-Liner?](#) 6

[Has anyone been able to do this in a one-liner yet?](#)
- 🔍 [Returning True for Falses- Failed to debug! Please help](#) 1

[Hello Everyone, this is my problem. My code is not returning what it is supposed to and I have no ...](#)
- 🔍 [How do you use the test_ps4a.py to test your code?](#) 3

[I don't get it: in test_ps4a.py there is no place for you to paste your code and run it to check; is it e...](#)
- 💬 [this call will not mutate hand](#) 1

[len\(updateHand\(hand, word\)\) != len\(word\) — sum\(hand.values\(\)\) and word in wordList won't muta...](#)

💬 [Random Tests](#)

What does "Re-testing last test to see if you mutate the original hand" mean? Does it mean they di...

2

🗨 kwyjibo!

The first test word is from S01:E02 of the Simpsons ("Bart the Genius"). Hilarious! <https://simpson...>

1

🗨 Do not worry, I solved: Weird error, I made my code so long to check every line. Any hint?

2

Testing this: Function call: isValidWord(rapture, {'u': 1, 'p': 2, 't': 1, 'e': 1, 'r': 1, 'a': 3}, <edX internal w...

🗨 Using updateHand function to solve

Why updateHand function is not allowed to be used to solve this problem? I was not mutating ha...

2

🗨 Strange error in running test code.

2

My code for isValidWord contains a line: if checkHand.get(char) == 0: where checkHand is a COP...

