On Thursday, February 16th at 6:00AM EST, UTC-5, we will be conducting a brief database maintenance. The event should last about 5 minutes.

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Week 4: Good Programming Practices > Problem Set 4 > Problem 3 - Valid Words

# Problem 3 - Valid Words

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## Problem 3 - Valid Words

10.0 points possible (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 fun
13
```

✎

Problem Set due Feb 23, 2017 15:30 PST ✎

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

Unanswered

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## Problem 3 - Valid Words
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