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.



MITx: 6.00.1x Introduction to Computer Science and Programming U..

<u>Help</u>



Problem 3 - Valid Words

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Finger Exercises

Finger Exercises

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 <code>isvalidWord</code> function.

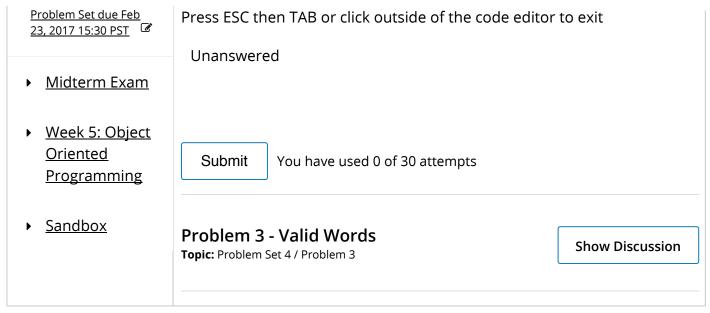
Week 4: Good Programming Practices > Problem Set 4 > Problem 3 - Valid Words

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 <code>isValidWord</code> in <code>ps4a.py</code> 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
      hand: dictionary (string -> int)
 9
10
      wordList: list of lowercase strings
11
12
      # TO DO ... < -- Remove this comment when you code this fur
13
```

Problem Set 4



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