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Problem 5 - Playing a Hand

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

Problem 5 - Playing a Hand

10/10 points (graded)

In `ps4a.py`, note that in the function `playHand`, there is a bunch of *pseudocode*. This pseudocode is provided to help guide you in writing your function. Check out the [Why Pseudocode?](#) resource to learn more about the What and Why of Pseudocode before you start coding your solution.

Note: Do **not** assume that there will always be 7 letters in a hand! The parameter `n` represents the size of the hand.

Testing: Before testing your code in the answer box, try out your implementation as if you were playing the game. Here is some example output of `playHand`:

Test Cases

Case #1

Function Call:

```
wordList = loadWords()
playHand({'h':1, 'i':1, 'c':1, 'z':1, 'm':2, 'a':1}, wordList, 7)
```

Output:



```
Current Hand:  a c i h m m z
Enter word, or a "." to indicate that you are finished: him
"him" earned 24 points. Total: 24 points

Current Hand:  a c m z
Enter word, or a "." to indicate that you are finished: cam
"cam" earned 21 points. Total: 45 points

Current Hand:  z
Enter word, or a "." to indicate that you are finished: .
Goodbye! Total score: 45 points.
```

Case #2

Function Call:

```
wordList = loadWords()
playHand({'w':1, 's':1, 't':2, 'a':1, 'o':1, 'f':1}, wordList, 7)
```

Output:

```
Current Hand:  a s t t w f o
Enter word, or a "." to indicate that you are finished: tow
"tow" earned 18 points. Total: 18 points

Current Hand:  a s t f
Enter word, or a "." to indicate that you are finished: tasf
Invalid word, please try again.

Current Hand:  a s t f
Enter word, or a "." to indicate that you are finished: fast
"fast" earned 28 points. Total: 46 points

Run out of letters. Total score: 46 points.
```

Case #3

Function Call:

```
wordList = loadWords()
playHand({'n':1, 'e':1, 't':1, 'a':1, 'r':1, 'i':2}, wordList, 7)
```

Output:



Current Hand: a r e t i i n

Enter word, or a "." to indicate that you are finished: inertia

"inertia" earned 99 points. Total: 99 points

Run out of letters. Total score: 99 points.

Additional Testing

Be sure that, in addition to the listed tests, you test the same basic test conditions with varying values of `n`. `n` will never be smaller than the number of letters in the hand.

```
1 def playHand(hand, wordList, n):
2     """
3     Allows the user to play the given hand, as follows:
4
5     * The hand is displayed.
6     * The user may input a word or a single period (the string ".")
7       to indicate they're done playing
8     * Invalid words are rejected, and a message is displayed asking
9       the user to choose another word until they enter a valid word or "."
10    * When a valid word is entered, it uses up letters from the hand.
11    * After every valid word: the score for that word is displayed,
12      the remaining letters in the hand are displayed, and the user
13      is asked to input another word.
14    * The sum of the word scores is displayed when the hand finishes.
15    * The hand finishes when there are no more unused letters or the user
16      inputs a "."
```

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

Correta

Test results

Hide output

CORRECT

Function call: playHand({'l': 1, 'm': 1, 'p': 1, 'u': 1}) '<edX internal wordList>', 4

Test 1: Using all the letters in the hand on the first guess

Output:

Current Hand: p l m u
Enter word, or a "." to indicate that you are finished:plum
"plum" earned 82 points. Total: 82 points

Run out of letters. Total score: 82 points.
None

Function call: playHand({a: 1, z: 1})'<edX internal wordList>', 2

Test 2: Guessing incorrectly, then correctly

Output:

Current Hand: a z
Enter word, or a "." to indicate that you are finished:zo
Invalid word, please try again.

Current Hand: a z
Enter word, or a "." to indicate that you are finished:za
"za" earned 72 points. Total: 72 points

Run out of letters. Total score: 72 points.
None

Function call: playHand({i: 1, o: 1, q: 1})'<edX internal wordList>', 3

Test 3: Guessing word, then quitting

Output:

Current Hand: i q o
Enter word, or a "." to indicate that you are finished:qi
"qi" earned 22 points. Total: 22 points

Current Hand: o
Enter word, or a "." to indicate that you are finished:.
Goodbye! Total score: 22 points.
None

Function call: playHand({b: 1, s: 1, x: 2, y: 1, z: 2})'<edX internal wordList>', 7

Test 4: Can't make a word :(

Output:



Current Hand: b s x x z z y
Enter word, or a "." to indicate that you are finished:.
Goodbye! Total score: 0 points.
None

Function call: playHand({a: 2, e: 2, p: 1, r: 1, t: 1})'<edX internal wordList>', 7

Test 5: Full hand transcript - using all letters

Output:

Current Hand: p e e t r a a
Enter word, or a "." to indicate that you are finished:pear
"pear" earned 24 points. Total: 24 points

Current Hand: e a t
Enter word, or a "." to indicate that you are finished:tea
"tea" earned 9 points. Total: 33 points

Run out of letters. Total score: 33 points.
None

Function call: playHand({a: 2, e: 1, p: 2, r: 1, z: 1})'<edX internal wordList>', 7

Test 6: Full hand transcript - can't use every letter

Output:

Current Hand: p p e r z a a
Enter word, or a "." to indicate that you are finished:pear
"pear" earned 24 points. Total: 24 points

Current Hand: p a z
Enter word, or a "." to indicate that you are finished:za
"za" earned 22 points. Total: 46 points

Current Hand: p
Enter word, or a "." to indicate that you are finished:p
Invalid word, please try again.

Current Hand: p
Enter word, or a "." to indicate that you are finished:.
Goodbye! Total score: 46 points.
None



```
Function call: playHand({a: 1, e: 2, f: 1, g: 1, k: 1, o: 1, q: 1, s: 1, t: 1})'<edX internal wordList>', 10
```

Test 7: Randomized Test

Output:

```
Current Hand: e e a o f g s q k t
Enter word, or a "." to indicate that you are finished:k
Invalid word, please try again.

Current Hand: e e a o f g s q k t
Enter word, or a "." to indicate that you are finished:chayote
Invalid word, please try again.

Current Hand: e e a o f g s q k t
Enter word, or a "." to indicate that you are finished:kwijibo
Invalid word, please try again.

Current Hand: e e a o f g s q k t
Enter word, or a "." to indicate that you are finished:tea
"tea" earned 9 points. Total: 9 points


Current Hand: e o k f g s q
Enter word, or a "." to indicate that you are finished:.
Goodbye! Total score: 9 points.
None
```

[Hide output](#)

Note: Letters in the dictionary for the test cases in "See full output" are actually strings. When you test your code, they should be {"a": 1, "e": 1,... } not {a: 1, e: 1,...}.

Enviar

You have used 3 of 30 attempts

 Suas respostas foram salvas mas não avaliadas. Clique 'Enviar' para corrigi-las.

Problem 5 - Playing a Hand

Ocultar discussão

Topic: Problem Set 4 / Problem 5

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?	<u>unable to reproduce the grader's output</u> The grader raised a couple of error type such as pasted below. I am , however, not able to reproduce...	7
💬	<u>"A Cool Trick about 'print'"</u> In the next question (Problem 6), there is a tip regarding how to use the print function to have differ...	5
?	<u>What do these errors mean?</u> There was a problem running your solution (Staff debug: L379). We couldn't run your solution (Staff...	2
?	<u>The function is printing before 'Current Hand: '</u> The function <code>displayHand(hand)</code> is printing before <code>'Current Hand: '</code> Even if in my code it is in the...	2
✓	<u>Invalid grader reply.</u> "Invalid grader reply. Please contact the course staff." This message appears when I submit my code...	4
?	<u>Can we reference a other functions i.e display_hand and update_hand for problem 5?</u> IN order to get update hand and display hand it is easier to reference a separate function. Can grade...	1

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