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Problem 5 - Playing a Hand

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Problem 5 - Playing a Hand

4.285714285714286/10 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](#)[Case #2](#)[Case #3](#)[Additional Testing](#)

```
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
```

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

Incorrect

Test results

[Hide output](#)

INCORRECT



Function call: `playHand({a: 1, h: 1, i: 1, r: 1})'<edX internal wordList>', 4`

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

Output:

```
Current hand: i a h r  
Enter word, or a "." to indicate that you are finished:hair  
"hair" earned 78 points. Total: 78 points
```

```
Run out of letters. Total score: 78 points.  
None
```



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

Test 2: Guessing incorrectly, then correctly

Output:

Sorry we could not search the store for annotations

```
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

Your output:

```
Current hand: i o q
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:.
Invalid word, please try again.
```

```
Current hand: o
*** Error: Your code called 'input' more times than
necessary. Please review where you are using the 'input'
function. Additionally also be sure your 'print' statements
match up with the sample output.
```

```
*** ERROR: Expected to find a number in the line 'Invalid
word, please try again.'.
Check to be sure your lines match up with the expected
output!!! ***
```

Correct output:

```
Current Hand: o q i
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 Sorry we could not search the store for annotations
```



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

Test 4: Can't make a word :(

Your output:

```
Current hand: x x s y b z z
Enter word, or a "." to indicate that you are finished:.
Invalid word, please try again.

Current hand: x x s y b z z
*** Error: Your code called 'input' more times than
necessary. Please review where you are using the 'input'
function. Additionally also be sure your 'print' statements
match up with the sample output.

*** ERROR: Expected to find a number in the line 'Invalid
word, please try again.'.
Check to be sure your lines match up with the expected
output!!! ***
```

Correct output:

```
Current Hand: s z z b x x 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:



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

Current hand: a t e
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

Your output:

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

Current hand: a p 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:.
Invalid word, please try again.

Current hand: p
*** Error: Your code called 'input' more times than
necessary. Please review where you are using the 'input'
function. Additionally also be sure your 'print' statements
match up with the sample output.

*** ERROR: Expected to find a number in the line 'Invalid
word, please try again.'.
Check to be sure your lines match up with the expected
output!!! ***
```

Correct output: Sorry we could not search the store for annotations

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

Current Hand: a p 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: 2, c: 1, e: 1, h: 1, m: 3, r: 1, s: 1})'<edX
internal wordList>', 10

Test 7: Randomized Test

Your output:

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```
Current hand: c a a m m m e s h r
Enter word, or a "." to indicate that you are finished:m
Invalid word, please try again.

Current hand: c a a m m m e s h r
Enter word, or a "." to indicate that you are
finished:chayote
Invalid word, please try again.

Current hand: c a a m m m e s h r
Enter word, or a "." to indicate that you are
finished:kwijibo
Invalid word, please try again.

Current hand: c a a m m m e s h r
Enter word, or a "." to indicate that you are
finished:hammer
"hammer" earned 78 points. Total: 78 points

Current hand: c a m s
Enter word, or a "." to indicate that you are finished:.
Invalid word, please try again.

Current hand: c a m s
*** Error: Your code called 'input' more times than
necessary. Please review where you are using the 'input'
function. Additionally also be sure your 'print' statements
match up with the sample output.

*** ERROR: Expected to find a number in the line 'Invalid
word, please try again.'.
Check to be sure your lines match up with the expected
output!!! ***
```

Correct output:

Sorry we could not search the store for annotations

```
Current Hand: a a e r h m m m c s
Enter word, or a "." to indicate that you are finished: m
Invalid word, please try again.

Current Hand: a a e r h m m m c s
Enter word, or a "." to indicate that you are finished:
chayote
Invalid word, please try again.

Current Hand: a a e r h m m m c s
Enter word, or a "." to indicate that you are finished:
kwijibo
Invalid word, please try again.

Current Hand: a a e r h m m m c s
Enter word, or a "." to indicate that you are finished:
hammer
" hammer " earned 78 points. Total: 78 points

Current Hand: a m c s
Enter word, or a "." to indicate that you are finished: .
Goodbye! Total score: 78 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,...}.

[Submit](#)

You have used 3 of 30 attempts

✘ Incorrect (4.29/10 points)

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