A D   T : .0 P I TS

We are now read   to begin writing the code that interacts with the pla er. We ll be implementing the `playHand`
function. This function allows the user to play out a single hand. irst, though, you 'll need to im plem ent the helper
`calculateHandlen` function, which can be done in under five lines of code.

```
1  def calculateHandlen(hand):
2      """
3      Returns the length (number of letters) in the current hand.
4
5      hand: dictionary (string int)
6      returns: integer
7      """
8      length=0
9      for l in hand.keys():
10         length+=hand.get(l,0)
11     return length
```

Correct

Test results

CORRECT

| Check | Save | *You have used 2 of 30 submissions* |

Y   1 .0

n `ps4a.py` , note that in the function `playHand` , there is a bunch of *pseudocode. his pseudocode is provided to he p*
guide ou in riting our function. hec out the   h   seudocode   static content mit
00 2012 a fi es ps04 fi es   h   seudocode. 3 30b 0 d3.pdf resource to earn more about the   hat and   h
of seudocode before ou start coding our so ution.

Note: o not ass   et at t e e i a as e   ette s in a an T e a a ete `n` represents the size of the hand.

Testing: e o e testing o   o e int e ans e o t o t o i   e entation as i o   e e a ing t e ga e
** e e is so e e a   eo t to** `playHand` :

Test Cases

Case

 n tion Ca :

wordList = loadWords()

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

```
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.
```

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

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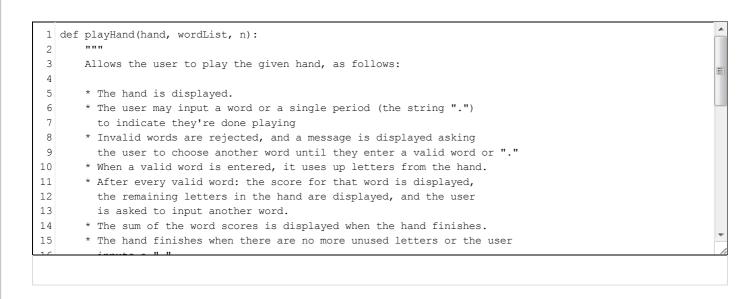
```
wordList = loadWords()
playHand({'n':1, 'e':1, 't':1, 'a':1, 'r':1, 'i':2}, wordList, 7)
```

```
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.
```

`n` `.` `n` will never be smaller than the number of letters in the hand.

lease see this forum post

```
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 "."
```

Test results

> **CORRECT**

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