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.

Problem 5 - Playing a Hand

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Problem 5 - Playing a Hand

10.0 points possible (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:

Problem Set due Feb 23, 2017 15:30 PST

- Midterm Exam
- Week 5: Object Oriented Programming
- Sandbox

```
  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.

```
def playHand(hand, wordList, n):
    """
    Allows the user to play the given hand, as follows:

    * The hand is displayed.
    * The user may input a word or a single period (the string
      to indicate they're done playing
    * Invalid words are rejected, and a message is displayed a
      the user to choose another word until they enter a valid
    * When a valid word is entered, it uses up letters from th
    * After every valid word: the score for that word is displ
      the remaining letters in the hand are displayed, and the
      is asked to input another word.
    * The sum of the word scores is displayed when the hand fi
    * The hand finishes when there are no more unused letters
      inputs a "."
```

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

Unanswered

Submit You have used 0 of 30 attempts

Problem 5 - Playing a Hand

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