Problem 6 - Playing a Game

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Problem Set due Oct 7, 2022 07:30 +08 Completed

Problem 6 - Playing a Game

15.0/15.0 points (graded)

A game consists of playing multiple hands. We need to implement one final function to complete our word-game program. Write the code that implements the `playGame` function. You should remove the code that is currently uncommented in the `playGame` body. Read through the specification and make sure you understand what this function accomplishes. For the game, you should use the `HAND_SIZE` constant to determine the number of cards in a hand.

Testing: Try out this implementation as if you were playing the game. Try out different values for `HAND_SIZE` with your program, and be sure that you can play the wordgame with different hand sizes by modifying *only* the variable `HAND_SIZE`.

Sample Output

Here is how the game output should look...

```
Loading word list from file...
   83667 words loaded.
Enter n to deal a new hand, r to replay the last hand, or e to end game: r
You have not played a hand yet. Please play a new hand first!

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
Current Hand: p z u t t t o
Enter word, or a "." to indicate that you are finished: tot
"tot" earned 9 points. Total: 9 points

Current Hand: p z u t
Enter word, or a "." to indicate that you are finished: .
Goodbye! Total score: 9 points.

Enter n to deal a new hand, r to replay the last hand, or e to end game: r
Current Hand: p z u t t t o
Enter word, or a "." to indicate that you are finished: top
"top" earned 15 points. Total: 15 points

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

Current Hand: z u t t
Enter word, or a "." to indicate that you are finished: .
Goodbye! Total score: 15 points.

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
Current Hand: a q w f f i p
Enter word, or a "." to indicate that you are finished: paw
"paw" earned 24 points. Total: 24 points

Current Hand: q f f i
Enter word, or a "." to indicate that you are finished: qi
"qi" earned 22 points. Total: 46 points

Current Hand: f f
Enter word, or a "." to indicate that you are finished: .
Goodbye! Total score: 46 points.

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
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.

Enter n to deal a new hand, r to replay the last hand, or e to end game: x
Invalid command.
Enter n to deal a new hand, r to replay the last hand, or e to end game: e
```

Hints about the output

Be sure to inspect the above sample output carefully - very little is actually printed out in this function specifically. Most of the printed output actually comes from the code you wrote in `playHand` - be sure that your code is modular and uses function calls to the `playHand` helper function!

You should also make calls to the `dealHand` helper function. You shouldn't make calls to any other helper function that we've written so far - in fact, this function can be written in about 15-20 lines of code.

Here is the above output, with the output from `playHand` obscured:

```
Loading word list from file...
   83667 words loaded.
Enter n to deal a new hand, r to replay the last hand, or e to end game: r
You have not played a hand yet. Please play a new hand first!

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
<call to playHand>

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
<call to playHand>

Enter n to deal a new hand, r to replay the last hand, or e to end game: n
<call to playHand>

Enter n to deal a new hand, r to replay the last hand, or e to end game: x
Invalid command.
Enter n to deal a new hand, r to replay the last hand, or e to end game: e
```

Hopefully this hint makes the problem seem a bit more approachable.

Entering Your Code

Be sure to only paste your definition for `playGame` in the following box. Do not include any other function definitions.

A Cool Trick about 'print'

A cool trick about `print`: you can make two or more print statements print to the same line! Try out the following code. It will separate the first and second line with a space, and the second and third line with a "?" rather than putting each on a new line.

```
print('Hello', end = " ")
print('world', end="?")
print('!')
```

```
# A game consists of playing multiple hands. We need to implement one final
# function to complete our word-game program. Write the code that implements the
# playGame function. You should remove the code that is currently uncommented in
# the playGame body. Read through the specification and make sure you understand
# what this function accomplishes. For the game, you should use the HAND_SIZE
# constant to determine the number of cards in a hand.

# Testing: Try out this implementation as if you were playing the game. Try out
# different values for HAND_SIZE with your program, and be sure that you can
# play the wordgame with different hand sizes by modifying only the variable
# HAND_SIZE.

def playGame(wordList):
    """
    Allow the user to play an arbitrary number of hands.
```

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

Correct

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Test results

See full output

CORRECT

See full output

Note: the `input` function on Spyder may print an extra newline. That's ok. Do not try to move text backwards using `end='\b'` in a print statement

Submit You have used 2 of 30 attempts

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