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Problem 4

Problem Set due Jul 2, 2020 20:30 -03 Completo

Problem 4 - The Game

15.0/15.0 points (graded)

Now you will implement the function hangman, which takes one parameter - the secretword the user is to guess. This starts up an interactive game of Hangman between the user and the computer. Be sure you take advantage of the three helper functions, iswordGuessed, getGuessedWord, and getAvailableLetters, that you've defined in the previous part.

Hints:

- You should start by noticing where we're using the provided functions (at the top of ps3_hangman.py) to load the words and pick a random one. Note that the functions loadWords and chooseWord should only be used on your local machine, not in the tutor. When you enter in your solution in the tutor, you only need to give your hangman function.
- Consider using <code>lower()</code> to convert user input to lower case. For example:

```
guess = 'A'
guessInLowerCase = guess.lower()
```

- Consider writing additional helper functions if you need them!
- There are four important pieces of information you may wish to store:
 - 1. secretWord: The word to guess.

- 2. lettersGuessed: The letters that have been guessed so far.
- 3. mistakesMade: The number of incorrect guesses made so far.
- 4. availableLetters: The letters that may still be guessed. Every time a player guesses a letter, the guessed letter must be removed from availableLetters (and if they guess a letter that is not in availableLetters, you should print a message telling them they've already guessed that - so try again!).

The output of a winning game should look like this								

```
Loading word list from file...
55900 words loaded.
Welcome to the game, Hangman!
I am thinking of a word that is 4 letters long.
-----
You have 8 guesses left.
Available letters: abcdefghijklmnopqrstuvwxyz
Please guess a letter: a
Good guess: _ a_ _
_____
You have 8 guesses left.
Available letters: bcdefghijklmnopqrstuvwxyz
Please guess a letter: a
Oops! You've already guessed that letter: _ a_ _
You have 8 guesses left.
Available letters: bcdefghijklmnopqrstuvwxyz
Please guess a letter: s
Oops! That letter is not in my word: _ a_ _
-----
You have 7 guesses left.
Available letters: bcdefghijklmnopqrtuvwxyz
Please guess a letter: t
Good guess: ta t
You have 7 guesses left.
Available letters: bcdefghijklmnopqruvwxyz
Please guess a letter: r
Oops! That letter is not in my word: ta_ t
-----
You have 6 guesses left.
Available letters: bcdefghijklmnopquvwxyz
Please guess a letter: m
Oops! That letter is not in my word: ta_ t
-----
You have 5 guesses left.
Available letters: bcdefghijklnopquvwxyz
Please guess a letter: c
Good guess: tact
Congratulations, you won!
```

And the output of a losing game should look like this...

```
Loading word list from file...
55900 words loaded.
Welcome to the game Hangman!
I am thinking of a word that is 4 letters long.
-----
You have 8 guesses left.
Available Letters: abcdefghijklmnopqrstuvwxyz
Please guess a letter: a
Oops! That letter is not in my word: _ _ _ _
You have 7 guesses left.
Available Letters: bcdefghijklmnopqrstuvwxyz
Please guess a letter: b
Oops! That letter is not in my word: _ _ _ _
You have 6 guesses left.
Available Letters: cdefghijklmnopqrstuvwxyz
Please guess a letter: c
Oops! That letter is not in my word: _ _ _ _
-----
You have 5 guesses left.
Available Letters: defghijklmnopqrstuvwxyz
Please guess a letter: d
Oops! That letter is not in my word: _ _ _ _
You have 4 guesses left.
Available Letters: efghijklmnopqrstuvwxyz
Please guess a letter: e
Good guess: e_ _ e
-----
You have 4 guesses left.
Available Letters: fghijklmnopqrstuvwxyz
Please guess a letter: f
Oops! That letter is not in my word: e_ _ e
-----
You have 3 guesses left.
Available Letters: ghijklmnopqrstuvwxyz
Please guess a letter: g
Oops! That letter is not in my word: e_ _ e
You have 2 guesses left.
Available Letters: hijklmnopqrstuvwxyz
Please guess a letter: h
Oops! That letter is not in my word: e_ _ e
-----
You have 1 guesses left.
Available Lottons: ijklmnopgnstuvnya
Please guess a letter: i
Oops! That letter is not in my word: e\_\_e
```

```
Sorry, you ran out of guesses. The word was else.
```

Note that if you choose to use the helper functions <code>isWordGuessed</code>, <code>getGuessedWord</code>, or <code>getAvailableLetters</code>, you do not need to paste your definitions in the box. We have supplied our implementations of these functions for your use in this part of the problem. If you use additional helper functions, you will need to paste those definitions here.

Your function should include calls to input to get the user's guess.

Why does my Output Have None at Various Places? None is a keyword and it comes from the fact that you are printing the result of a function that does not return anything. For example: def foo(x): print(x) If you just call the function with foo(3), you will see output: 3 #-- because the function printed the variable

However, if you do print(foo(3)), you will see output:

```
3 #-- because the function printed the variable
None #-- because you printed the function (and hence the return)
```

All functions return something. If a function you write does not return anything (and just prints something to the console), then the default action in Python is to

```
11
12 * The user should receive feedback immediately after each guess
13 about whether their guess appears in the computers word.
14
15 * After each round, you should also display to the user the
```

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

Correta

Test results



Welcome to the game, Hangman! I am thinking of a word that is 3 letters long. You have 8 guesses left. Available letters: abcdefghijklmnopqrstuvwxyz Please guess a letter:z Good guess: zzz -----Congratulations, you won! None

Function call: hangman(c)

Testing if we can incorrectly guess a short word...

Output:

```
Welcome to the game, Hangman!
I am thinking of a word that is 1 letters long.
-----
You have 8 guesses left.
Available letters: abcdefghijklmnopqrstuvwxyz
Please guess a letter:a
Oops! That letter is not in my word: _
-----
You have 7 guesses left.
Available letters: bcdefghijklmnopqrstuvwxyz
Please guess a letter:b
Oops! That letter is not in my word: _
You have 6 guesses left.
Available letters: cdefghijklmnopqrstuvwxyz
Please guess a letter:d
Oops! That letter is not in my word: _
-----
You have 5 guesses left.
Available letters: cefghijklmnopgrstuvwxyz
Please guess a letter:e
Oops! That letter is not in my word: _
_____
You have 4 guesses left.
Available letters: cfghijklmnopqrstuvwxyz
Please guess a letter:f
Oops! That letter is not in my word: _
-----
You have 3 guesses left.
Available letters: cghijklmnopqrstuvwxyz
Please guess a letter:g
Oops! That letter is not in my word: _
-----
You have 2 guesses left.
Available letters: chijklmnopqrstuvwxyz
Please guess a letter:h
Oops! That letter is not in my word: _
-----
You have 1 guesses left.
Available letters: cijklmnopqrstuvwxyz
Please guess a letter:i
Oops! That letter is not in my word:
Sorry, you ran out of guesses. The word was else.
None
```

Function call: hangman(sea)

Testing if we handle repeat correct guesses...

Output:

```
Welcome to the game, Hangman!
I am thinking of a word that is 3 letters long.
-----
You have 8 guesses left.
Available letters: abcdefghijklmnopqrstuvwxyz
Please guess a letter:a
Good guess: _ _ a
You have 8 guesses left.
Available letters: bcdefghijklmnopqrstuvwxyz
Please guess a letter:e
Good guess: _ ea
You have 8 guesses left.
Available letters: bcdfghijklmnopqrstuvwxyz
Please guess a letter:a
Oops! You've already guessed that letter: _ ea
-----
You have 8 guesses left.
Available letters: bcdfghijklmnopqrstuvwxyz
Please guess a letter:e
Oops! You've already guessed that letter: _ ea
-----
You have 8 guesses left.
Available letters: bcdfghijklmnopqrstuvwxyz
Please guess a letter:s
Good guess: sea
-----
Congratulations, you won!
None
```

Function call: hangman(y)

Testing if we handle repeat incorrect guesses...

Output:

```
Welcome to the game, Hangman!
I am thinking of a word that is 1 letters long.
-----
You have 8 guesses left.
Available letters: abcdefghijklmnopqrstuvwxyz
Please guess a letter:x
Oops! That letter is not in my word: _
You have 7 guesses left.
Available letters: abcdefghijklmnopqrstuvwyz
Please guess a letter:z
Oops! That letter is not in my word: _
You have 6 guesses left.
Available letters: abcdefghijklmnopqrstuvwy
Please guess a letter:x
Oops! You've already guessed that letter: _
-----
You have 6 guesses left.
Available letters: abcdefghijklmnopgrstuvwy
Please guess a letter:z
Oops! You've already guessed that letter: _
You have 6 guesses left.
Available letters: abcdefghijklmnopqrstuvwy
Please guess a letter:y
Good guess: y
Congratulations, you won!
None
```

<u>Hide output</u>

Note: In "See Full Output", the parameter to the hangman function is a string.

Enviar

You have used 3 of 30 attempts

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Problem 4: Hangman Game

Ocultar discussão

Topic: Problem Set 3 / Problem 4

now all posts • po	or atividade recente
Problem Set 3: Post your solutions and discuss! ▼ Pinned ▲ Community TA	19
How to remove the empty line before an input statement I managed to solve this problem but I want to remove the empty line that the IDE pri	3 nted righ
Don't overthink the programming. It's pretty straightforward!!	4
Grading process still running after 8 hours and multiple attempts The grading process is still running after 8 hours and multiple attempts I only copied	the code 2
Nearly got it, but still a few bugs. So, my remaining issues are that whenever I try to print out the word and all guessed	7 d letters I
Deadline submission problem It is written "past due" while the deadline was at midnight. I cannot submit my answer	7 ers
Multiple guesses of correct letters incorrectly counted	6
Help. Couldn't fix formatting error due to INPUT function!!!! Please help for next time. I ran out of time getting this PS completed because of one	simple er

?	Extension for Due Time Can we get an extension for this problem set, say a couple hours or a day? Thank you.	3	
2	The most 'toppest' tip ever! ♣ Community TA	4	
2	<u>Don't Understand Error Message</u> *** ERROR: Expected to find a number in the line Available letters: abcdefghijklmnopqrstuvwy	6	
?	How can I fix the problem with the sea word If i cant even see what the graders function is doing It works with spyder and its not working with the grader, the function i made are different and	1	
•	Barely made it. but thrilling anyways !	_	•

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