

CS118 Program

Hangman, Part C

This program extends Hangman, Part B. You will be starting this program using the code from Part B:

Most of the game's functionality is complete. But we need to flesh-out some details. In this assignment, extend the code from Part B to also:

- Provide a function `show_hangman()` which will display the hangman character: argument to the function is how many incorrect characters have been guessed. Use uppercase `O` for the head, pipes `|` for the neck and body, and forward and backslashes `/` `\` for the arms and legs. (You can have the body be as many components as you like.) Modify the main program code to call the function as the game proceeds. **10% EXTRA CREDIT: With each line of output from a separate `print()` statement, write this function in 20 lines of code or less, not counting blank lines. (Your hangman must look identical to mine)**
- Permit the user to guess letters until either s/he matches all letters in the word or the hangman character is complete.
- Show the used letter list to the user before each guess – use the `print_list()` function.
- If the game ends with a complete hangman, show the answer to the user.

```
>>>
Testing: The word is GARBAGE
Matched: _ _ _ _ _
Used:
Your guess? e
After your guess: _ _ _ _ _ E

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Used: E
Your guess? a
After your guess: _ A _ _ A _ E

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Used: E A
Your guess? o
I'm sorry - no matches
After your guess: _ A _ _ A _ E

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Used: E A O
Your guess? z
I'm sorry - no matches
After your guess: _ A _ _ A _ E

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Used: E A O Z
Your guess? z
Already used. Guess again: r
After your guess: _ A R _ A _ E

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Used: E A O Z R
Your guess? q
I'm sorry - no matches
After your guess: _ A R _ A _ E

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Used: E A O Z R Q
Your guess? q
Already used. Guess again: q
Already used. Guess again: e
Already used. Guess again: b
After your guess: _ A R B A _ E

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Used: E A O Z R Q B
Your guess? t
I'm sorry - no matches
After your guess: _ A R B A _ E

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Used: E A O Z R Q B T
Your guess? n
I'm sorry - no matches
After your guess: _ A R B A _ E

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Used: E A O Z R Q B T N
Your guess? m
I'm sorry - no matches
After your guess: _ A R B A _ E

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Used: E A O Z R Q B T N M
Your guess? x
I'm sorry - no matches
After your guess: _ A R B A _ E

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The word was: GARBAGE
>>>
```