

PROGRAMMING ASSIGNMENT 2

Subject: Word Game



TAs: Res. Assist. (Feyza Nur KILICASLAN, Bahar GEZICI, Nebi YILMAZ)

Due Date: 23.11.2018

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Introduction

In the word game, a number of letters are presented to the player. The player is expected to derive a word from these letters that come from given three command line arguments. The letters should be represented according to alphabetical order. The program should be run with three command line arguments. Otherwise, it should warn the user, then exit the game. The player does not have to use all letters to derive a correct word. The player has one chance to find a correct word. If the player finds the longest word in the argument list, he/she gets 50 points. If the player finds the shortest word in argument list, he/she gets 10 points, otherwise he/she gets 30 points. If the player finds a word which is not from the list, he/she loses the game. If any length of arguments is same, the program should warn the user, then exit the game. The program should also check if all the characters in the given argument are alphabets.

Example 1

```
python3 assignment2.py serve deserve server
```

Find longest word using letters given below

```
'd', 'e', 'e', 'e', 'e', 'e', 'e', 'e', 'e', 'r', 'r', 'r', 'r', 's', 's', 's', 'v', 'v', 'v'
```

Guess a longest word: serve

You found a word from list

You won 10 points !

Example 2

```
python3 assignment2.py level license life
```

Find longest word using letters given below

```
'c', 'e', 'e', 'e', 'e', 'e', 'f', 'i', 'i', 'l', 'l', 'l', 'l', 'n', 's', 'v'
```

Guess a longest word: lie

The word you guessed is not in the list

You lost !

Example 3

```
python3 assignment2.py car vehicle
```

Please run with 3 arguments

Example 4

```
python3 assignment2.py car cat cartoon
```

Arguments should be a different length

Example 5

```
python3 assignment2.py cat table p3n-?ls
```

Argument p3n-?ls is not a word. All arguments should be word

Example 6

```
python3 assignment2.py cat 36 animal
```

Argument 36 is not a word. All arguments should be word

Notes

- Do not miss the submission deadline.
- Compile your code on *dev.cs.hacettepe.edu.tr* before submitting your work to make sure it compiles without any problems on our server.
- Save all your work until the assignment is graded.
- The assignment must be original, individual work. Duplicate or very similar assignments are both going to be considered as cheating.
- You can ask your questions via Piazza and you are supposed to be aware of everything discussed on Piazza. You cannot share algorithms or source code. All work must be individual! Assignments will be checked for similarity, and there will be serious consequences if plagiarism is detected
- You must submit your work with the file hierarchy stated below:

→ <assignment2.py >