# 程序代与代做 CS编程辅导 CS 0447 Computer Organization and Assembly Language

**Iterm Project** 

Introduction

In this project, y MIPS assembly.

ting a simplified version of wordle game using

The principle is the same as the original one. But we'll introduce a simplification: Players can try to guess non-existing words, like 1sdkf. Otherwise, it's pretty much the same but in text. eChat: cstutorcs

Start early

Assignment Project Exam Help The deadline will approach fast! Life happens, sickness happens, so if you start early,

you can minimize the impact. Do a little bit every day! 1 hour every day! 30 minutes every day! SOMETHING! ail: tutorcs@163.com

### How the game will work

The program starts by printing a bell message introducing itself and presents a menu to select what to do next. You don't need to print the same thing! Do your own prints!

Welcome to my little game, let's play 

What do you want to do?

- (1) Play
- (2) Quit

At this point, if the user selects an invalid value, you can just print the menu again and ask again. If the user selects the option to quit, the program should terminate calling syscall 10. If the user selects the option to play, the game begins.

#### Example 1 - Lose a game

Make your guess: hello h(e)(1)[1] oMake your guess: spell s p (e)[1](1) Make your guess: pixel p(i) x(e)(1)

```
Make your guess: water
                                                                    代写代做 CS编程辅导
w (a) t (e) r
  w o r [1] d
                                                                               not guess :(
Whoops, it seems vou
   The word was:
Example 2 - Win
Make your gues -
   p (i) x (e)(l
Make your gues
   h (e)(1)[1] o
Make your gues
   s w [i] n [e]
Make your guess: guile
(g) u [i][1][eWeChat: cstutorcs
[a][g][i][l][e]
Yay :)
  The word was iAdestigitement Project Exam Help
Example 3 - Multiple games
Welcome to Working it it is the working the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it is the working it. The working it is the working it is the working it is the working it is the working it. The working it is the working 
______
What do you want to do?
                                                        D: 749389476
            (1) Play
            (2) Quit
1
Make your gueshteps://tutorcs.com
Make your guess: skimp
[s] k i (m) p
Make your guess: smart
[s][m][a][r][t]
Yay :)
   The word was indeed: smart
Welcome to Wordle, let's play a game
_____
What do you want to do?
            (1) Play
            (2) Quit
1
Make your guess: smart
[s][m][a][r][t]
```

# Yay:) The word was 握婷娇写代做 CS编程辅导



# Welcome to Workssignment Project Exam Help

What do you want to do?

(1) Play \_\_\_

(2) Quit Email: tutorcs@163.com

**Explanation** 

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As you can see, during the game you will ask the player to make a guess. Read a 5-letter word from the keyboard. If your program allows the user to input a word larger than 5 letters, validate the word and ask another time. There is a syscall that limits the number of that that dangle in fit, sheck this you'd like to use it instead.

When a letter is not in the word, I just print it on its own **x** - I added spaces around it for consistency. When a letter was found on the word, but in the wrong location, I print it with parentheses (**x**). And if a letter is in the right location, I print it with square brackets [**x**].

The player only has 5 guesses.

## Your assignment

### **Plan**

This includes data structures you are planning to use, user inputs that may be invalid and you need to account for, etc. 1. Think of which functions you will need to implement, and what they will do: 1) Start from the main function and split your program into multiple steps. 2) This plan is not going to be enforced, but it should

be thought through 2. Think of possible user inputs, and how they will impact the program negative service comes xample with personal party and program are at the sure the behaviour is correct.

### **Implement**

Implement the  $\mathbb{N}$ 

- 1. It begins to the same message and an explanation of how to proceed.
- 2. If you seld the self its
- 3. If you seld pegins.
- 4. Then your program will:
  - 1. Randomly select a word from a list of at least 5!
  - <sup>2. 5</sup> tive eChat: cstutorcs
  - 3. Ask the player for a 5-letter word.
  - 4. Wait for user input.

# A street in put is a 5-letter Pring jouting Exam Help

- 5. Print the user input using the symbols [] () to indicate the correctness.
- 6. If the playing dessitute of the playing.
- 7. If you ran out of tries, print a losing message.
- 5. When the gan e ound is over display the monu again.

## The welcome message

I try to restrict y the imagnation as little accessible in his project. You do your own thing, as long as it fits the project! So, use the welcome message to explain to the user anything that is not clear in the game.

### **User input**

Some syscalls that you may want to use:

- print character.
- read character.
- read string.
- random int range.

Make sure your string variables (the ones you use for user input) can hold enough space for a user input (including **\0**)!

Think about which function you need 化 CC护 把

If you are using strings, you may want to implement functions to compare/copy/etc those strings. (Maybe not! There are many ways to implement this code). Think about those thin

The game is compared to the seps. Print and handle menu, run game loop, ask and handle work to the seps. Print and handle menu, run game loop, ask

Think about tho: Think about the Tunctions you need.

**Storing data** 

How will you store your list of words? Maybe an array of strings? How can you do that? What sort of limitations will it have and how will you access each string? (maybe a function)

Because all strings are the same size, I used a matrix of words!

# Debug mode Assignment Project Exam Help

You must have a variable named **debug** at the top of your code. The grader must be able to change its value to **1** to enable debug mode, or to **0** to disable debug mode!

In debug mode, the land duld blift the consoler of the leader of the land like the land of the land like the land

# Project Stages OO: 749389476

In order to help you be aware of your progress, I will recommend a series of mile markers to help you divide up the work. You can, of course, ignore these if you wish. However, if you find you need some direction, by all means follow along.

I've divided this into three stages. You could consider accomplishing each stage one by one.

#### Stage 1 - Plan! Create the data structures you think you'll need and print

Solving a project is more than writing code! So, your first task should be designing the solution.

- How are you doing user interaction?
- What information do you need to store?
- What will execution look like?
- What are the parts of your program and how do they interact?

So, for the first stage:

- Read the project description and understand it.
- Implement the strings and other variables you think you need. (Like messages for the player)
- Write the ons (e.g., I wrote a function to ask for a 5-letter word, one
- Break the **A.L.** er pieces (each should be a funcion).

If you finish ear

Stage 2 - Parsing

In stage 2, I suggest you tackle parsing user input. Write a function that takes user input and decides if each input letter is: (1) in the correct position, (2) in the word but in the wrong position, or represent the feedback to the user as you go (making the code simpler).

At this point, you are really close to the end! Project Exam Help

If you finish early, move at to stage 3.

Stage 3 - Finish the project

You should have a few weeks to the dead inc, now it stime for cesting!

**Helpful Tidbits** 

Starting the code QQ:749389476

This is a very simple program in a higher-level language! But it is much more complex in assenting the such there are some advice for developing your program.

Plan ahead and start by writing high level comments on how you plan to approach the problem:

- If you are not sure what to write, ask for help.
- If you need, then write the program in a high-level language, draw a diagram, write pseudo-code, and then translate that into MISP assembly.

#### **Testing**

#### DO NOT TRY TO WRITE THE WHOLE PROGRAM BEFORE TESTING IT!!!!

- Really! Do not do it! It's the easiest way to get overwhelmed and confused without knowing what to do!
- Implement small parts of the code and test them!

Split your code into functions
Use functions! They will kelp you manage the cognitive load. Here is a starting point!

main:



## Submission WeChat: cstutorcs

Submit a single ZIP file with your project named studentID\_MidtermProj.zip (e.g., 2022141520000\_ MidtermProj.zip). In the zip file, there should be NO folder, just the following Ales: signment Project Exam Help

- Your wordle.asm file. (Put your name and student ID at the top of the file in comments!)
- A readme Ext File (and NOT SULLIOIT CREASE EDOCX) READMIT PDF. SUBMIT A PLAIN TEXT FILE. PLEASE.) which should contain: a) your name, b) your student ID, c) anything that does not work, d) anything else you think might help the grade your praise resily.

Submit into the Blackboard. Let me know immediately if there are any problems submitting your work.

https://tutorcs.com